

Someavara.

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Text

aryabhatakrta

aryabhatiyam

bhaskara-viracita-bhasyopetam

gitikapadah

[mangalacaranam]

yasmat asesajagam prabhavam sthitim ca samharam api upadisanti
samagradhikah | bhrgvangirahprabhrtayah viditantarayah
tasmai namah kamalajaya caturmukhaya |

atha asesajagadanugrahaya
acaryaryabhatamukharavindavinissrta-dasagitika-sutravyakhyanam
arabhyate | tasya eva asesavighnanirakaranaya sarvavidyaprabhavasya
bhagavatah kamalayoneh pranamaprakrantastravastuparigrahaya
aryam adau prayuktavan ā

pranipatya ekam anekam kam satyam devatam param brahma |
aryabhatah trini gadati ganitam kalakriyam golam || 1 ||

asyah padavibhagah: ā pranipatya, ekam, anekam, kam, satyam,
devatam, param, brahma, aryabhatah, trini, gadati, ganitam,
kalakriyam, golam |

atra pranipatya iti "pra"-sabdah prakarsavaci, prakarsena nipatya
pranipatya, pranamam krtva iti arthah | ktvapratyayena
purvakalakriya abhidhiyate, yatha snatva bhunkte iti | snakriya
anantaram bhojanakriya | evam atra api pranipatananantaram ganitam,
kalakriyam, golam ca gadati | ekam, abhedarupena vyavasthitam, nirvikaram
| anekam, na ekam anekam, bhedarupena vyavasthitam | kam, kah iti
prajapateh akhyanam | kam pranipatya evamgunavisistam |

atha yadi asau prajapatih ekah katham asau anekah? yadi asau anekah
katham ekah? ekanekayoh parasparaviruddhayoh yugapat ekatra avasthanam
na sambhavati, yatha atyantaviruddhayoh cchaya atapayoh
usnasitayoh va iti | atra ucyate ā yatha vrksah
ekavasturupena [tisthati], asau eva yada
mula-skandha-sakha-prarohadiprapañcena vikalpyate tada anekah | evam
asau api paramatma nirvikarah nirañjanah ekah eva, asau eva [yada]

anekapranisarire vyavasthitah vikalpyate [tada] anekah | aha ca ā

ekah eva hi bhutatma bhute bhute vyavasthitah |
ekadha bahudha ca eva drsyate jalacandravat ||

[amrtabindupanisat, sloī 12]

iti | athava asau ekah eva asit, tatah svayam ardhena purusah
abhavat ardhena nari iti | tatah sarvan praninah asrjat iti |
athava asau bhagavan prajapatih visvarupah | tasmāt tasya
visvarupatvat ekanekatvam ekasmin yugapat sambhavati iti ayam adosah |

satyam devatam | devah eva devata, satya ca devata ca | sa eva kah
satyatvena devatatvena ca visisyate | kam satyam devatam pranipatya |
na kevalam satyatvena devatatvena ca visesitah | kena ca tarhi iti aha
ā param brahma | param ca tat brahma param brahma | param sruyate
pulastya-pulaha-kratvadikam | evam asau bhagavan kah, satya devata, param
brahma ca | kam, satyam devatam, param brahma ca pranipatya |

atha katham kah sabdah pullingah, satya devata strilingah,
param brahma napumsakalingah? taih bhinnalingaih ekam vastu
abhidhiyate | nanu ca atra sarvaih eva sabdaih ekalingaih
bhavitavyam? na iti aha | ete sabdah avistalingah | taih
avistalingaih sabdaih ekam eva vastu abhibhiyate | yatha ā
"karanam iyam brahmani, bhutam iyam brahmani, avapanam iyam
ustrika" iti [astadhyayi aī 4, padah 1, sutram 3,
patañjalamahabhasyam, aksepavartikah 5117]

athava brahmanoh dvayoh apy acaryena pranipatah krtah,
sabdabrahmanah parabrahmanah ca | tayoh upavarnana iyam kriyate
ā pranipatya iti | nigadavyakhyanam evam ā ekam, pariññanatah tu
tattvasya abhedarupatvat, yasmāt sarvesu eva jñeyesu
pariññanamatrasamanyam ekam; anekam
rgyajuh samatharvetihasapuranasiksakalpavyakarananiruktachandov
icitijyotisam iti adisabdarupena vyavasthitatvat anekam | kah iti
sabdabrahmanah akhyanam | kam ekam anekam pranipatya | satyam
devatam iti etat dvayoh brahmanoh sesah, satya devata
sabdabrahma | uktam ca ā

jñanantarabhavi yat ca hi phalam jñatva kriya atah ca yat
sarvasya avyabharikaranam iti jñanasthitau niscayah |
jñeyam ca aparimanam alpavisayasrautadisastram punar
divyam caksuh atindriye api visaye vyahanyate na kvacit ||

param brahma | "param"-sabdah prakarsavaci | prakrstam brahma
param brahma, yat sarvaih api muktivadibhih prarthyate, moksadah
paramatma iti arthah | evam ca dvayoh brahmanoh pranamah
krtah | anyatra api "brahma"-sabdena sabdabrahma-parabrahmanoh eva
grahanam | tad yatha ā

dve brahmani veditavye sabdabrahma param ca yat |

sabdabrahmani nisnatah param brahma adhigacchati ||

[amrtabindupanisad, sloi 7; vayupuranam, amsah 6, ai 5, sloi 64] iti |

athava, pranipaty kam hiranyagarbham, ekanekasvarupam, sarvapraninam mahat nama | tatra visesah ekam, tasya tasya yatah adhisthatrdevata hiranyagarbhah ekah eva | yada karananam adhisthatrdevatavisesabhedena vivakasyate tada anekam | tat yatha ã trayodasa karanani, tvacah vayuh, caksusah suryah, srotasyah akasah, rasanasyah apah, ghranasya prthivi, evam pañcanam buddhindriyanam adhisthatryah devatah, vacah agnih, paneh indrah, padasya visnuh, payunah mitrah, upasthasya prajapatih, evam karmendriyadhisthatryah devatah, manasah candrah, buddheh savita, ahankarasya rudrah iti | satyam devatam antaryaminah isvarasya bhagavatah paramatmanah karanasaktya adhisthitah sarve eva padarthah svarthe pravartante | atah tam paramatmanah karanasaktim satyam devatam | atah eva strilingena nirdesah krtah | param brahma yat tat adhikari brahma paramatma tam | evam brahmatrayam pranipaty | yadi evam, cakarah tarhi kartavyam | na kartavyam | antarena api cakaram ca arthah gamyate eva | tat yatha ã

bale vrdhe ksate ksine ksiram yuktya prayojayet |

iti | bale ca vrdhe ca ksate ca ksine ca iti gamyate | evam atra api ca arthah, kam ca satyam devatam ca param brahma ca iti |

aryabhatah acaryasya samakhyanah | trini gadati | trini vastuni gadati iti | nanu atra evam yuktam vaktum ã "aryabhatah aham trini gadami" iti, anyatha anyasya kasyacit etat vakyam abhati | yatha kimcit kascit prechati ã "rajakule kena kim uktam iti aha ã evam ukte rajani evam devadatto braviti | yajñadattah api evam eva nigadati" iti | tasmāt tatra api aryabhatah trini gadati iti, na tat acaryasya vacanam iti | atra ucyate | ayam acaryah mahanubhavaḥ svayam eva bruvan paratvam apadya kathayati, yatha aha kautilyah ã

sukhagrahanavijñeyam tattvarthapadaniscitam |
kautilyena krtam sastram vimucya granthavistaram ||

[arthasastram, 1.1.19]

iti | athava yah tejasvi purusah samaresu nikrstasitejovitanacchuritabahuh satrusanghatam prakasam pravisyā praharan evam aha ã "ayam asau uditah aditikulaprasutah samaresu anivaritaviryah yajñadattah praharati | yadi kasyacit saktih pratipraharatu" iti | evam asau api acaryah ganitakalakriyagolatisayajñanodadhiparagah vitsabham avagahya "aryabhatah trini gadati ganitam kalakriyam golam" iti uktavan |
ganitam kalakriyam golam | ganitam,

ksetracchayasredhisamakaranakuttakaradikam | kalah,
pranavinadinadyahoratrakpakamasasamvatsarayugadikam |
tatparijñanartham kriya kalakriya | ane punah kriya avyati-riktam
kalam etena abhyupagacchanti | tesam ayam vigraha ā kalah ca asau
kriya ca kalakriya | evam etau dvau pakṣau ā kecit kalam
kriyavyati-riktam manyante, ane kriya eva kalah iti | ubhayatah
asmakam adosaḥ iti, yena asmādiye siddhante suryodayat prabhṛti
yavat aparaḥ suryodayaḥ tavaḥ ahoratram, yaḥ ca suryacandramasoḥ
paraḥ viprakarsaḥ sa ardhamaśaḥ, yaḥ ca tayoh paraḥ
sannikarsaḥ sa masaḥ; evam dvadasamaśaḥ samvatsaraḥ iti ayam
kalah, kriyavyati-riktah va astu kriya va iti | golam,
grahabhṛtanadharitrisamsthānadarsanopayam | gadati iti
kartrvacakah sabdah, vakyatvat | ganitakalakriyagolanam
dvitiyaikavacane nirdeśaḥ ganitam kalakriyam golam iti
ganitasabdah napumsakalingam, kalakriya strilingam, golah
pullingam | etesaḥ samanyopakramena napumsakalingena eva
acaryena abhidhanam [kṛtam] "trini gadati" iti |

atra ayam ganitasabdah asesaganitabhidhayaḥ, tasmāt
asesaganitabhidhayitvat yatha ksetraganitam braviti, evam
grahaganitam api; grahaganitasya ca ksetradvyati-riktatvat
kalakriyagolayoh ca ganitavyati-riktatvat ganitam nigadati iti etavat
eva siddhe kalakriyagolagrahanam kurvan acaryaḥ jñāpayati ā
ksetracchayasredhisamakaranakuttakaradikam samanyaganitam
kimcit vaksye, viśesaganite punah kalakriyaya golena tatparyam
iti | anyatha asesaganitabhidhayaḥ ganitasabdena eva siddhatvat
kalakriyagolayoh prthaggrahaḥ anavasyakam syat | tatha ca,
acaryena ganitapade ganitavastu dinmatram eva abhihitam,
kalakriyagolayoh kalakriyagola [vastu] viśesena | avasyam ayam
arthah abhyupagantavyaḥ ā kimcit ganitam iti / anyatha hi mahat
ganitavastu, astau vyavaharah

miṅṅraka-ṅṅreā, •hÄ«-ká!£etra-khÄ•ta-citi-krÄ•kacika-rÄ•Ä>i-cchÄ•yÄ•bhidhÄ•yinaā
| misrakah iti sakalaganitavastusammisrakah samsparsakah iti
arthah | sredhi iti adyuttarapracitah iti arthah | ksetram iti
anekasriksetraphalāni anayati iti arthah | khataḥ iti
khanyapramanam nirdeśati iti arthah | citih iti istakapramanena
uparinitavastupramanam avedayati iti arthah | krakacikam iti,
krakacah nama darucchedakam, tasmin krakace bhavaḥ krakacikah,
tadvastupramanam avagamayati iti arthah | rasih iti
dhanyadirupavastunitam tadvastupramanam janayati iti arthah | chaya
iti sankvadicchayapramanena kalam kathayati iti arthah | iti
vyavaharaganitasya astabhidhayaḥ catvāri bijāni
prathamadvitiatṛtiyacaturthāni yavat tavaḥ
vargavargaghanaghanavisamāni | etat ekaikasya
granthalakṣaṇalakṣyam maskari-purāna-mudgala-prabhṛtibhiḥ
acaryaiḥ nibaddham kṛtam, sa katham anena acaryena alpēna granthēna
sakyate vaktum | tat susthu uktam asmābhiḥ kimcit ganitam

visesatah kalagolau iti | evam iyam aya vyakhyata || 1||

[samkhyavinyase paribhasa]

yugabhaganadisankhyasamksepa vivaksuh acaryah
[pari]bhasasutrapradarsanaya gitikasutram aha ã

vargaksarani varge avarge avargaksarani kat nmau yah |
khadvinavake svarah nava varge avarge navanti avarge va || 2 ||

asya gitisutrasya padani ã vargaksarani, varge, avarge,
avargaksarani, kat, nmau, yah, khadvinavake, svarah, nava, varge,
avarge, nava, atyantavarge, va |

vargaksarani, vargaksarani kakaradini makaraparyantani | "te
vargah pañca pañca" iti [katantram, 1.1.10] |
vargaksarocaranakramena ya sankhya abhidhiyate sa sankhya
vargasabdena ucyate, abhedopacarat | atah vargaksarasankhya iti
arthah | sa varge, varge iti ganitasastre visamasthanasyah
akhya, tasmin visamasthane vargaksarasankhya upaciyate | avarge, na
vargah avargah samasthanah, tasmin avargasamjñite samasthane |
avargaksarani, tani yakaradini hakaraparyavasani | kutah etat?
"nañ iva yuktam anyasadsadhikarane tatha hy arthagatih"
[astadhyayi, 3.1.12, patañjalabhasyam] iti | vargaksarani
kakaradini |

yadinam [tu] yatha abrahmanam anaya iti ukte brahmanakrtitulyam
eva ksatriyam anayati nantyajadi, evam atra api kevalam vyañjanam eva
grahanam | tesam yakaradinam avargaksaranam ya sankhya sa
avargasthane upaciyate | sa [vargaksaranam sankhya] vargasthane
upaciyamana avargasthanam api yada prapnoti, tada prapnuvana ya
tesam svavargaksaranam upacitih sa vargasthanah eva, tasyah
antypacititvat | vargaksarasankhyayah vargasthane upaciyamanat
avakasah na asti cet sankhyayah sargah na vidyate iti
vargavargayoh sthanayoh sthapyate | athava, ya dasadika sankhya
sa dvisthanavagahini, tasyah dvisthanavagahanasilatvat dvayoh
api sthanayoh sthapyate | anyatha dasadisankhyayah abhavah eva
syat | tad ekadinavantasankhyaya eva vyavaharah syat |

athava "nmau" iti atra makaragrahanam kurvan acaryah jñapayati ã
ya dasottaravargaksarasankhya sa varge va avarge ca bhavati |
anyatha "go yah" iti evam bruyat | evam avargaksarasankhya api
vargashane yojya | vargaksaranam sankhya vargasthane kakarad
upaciyate | etat uktam bhavati ã yani vargaksarani srutyate tani
kakarad prabhrti pathitani bhavanti iti | anyatha hi "svam rupam
sabdasya asabdasamjña" [astadhyayi, 1.2.68] iti | yat yat
aksaram uccaritam tat tasya eva rupasya pratipadakam syat, na
kadisankhyayah | atah uktam "kat" iti |

nmau, nah ca mah ca nmau | anackau eva nakaramakarau, tayoh
dvi[vaca]nanirdesah nmau | nakaramakarayoh ya sankhya sa ekatra

samvṛtta yakarasankhya bhavati | nakarah pañca, makarah
pañcavimsatih, ete sankhye ekatra trimsat, tena trimsatsamkhyo
yakarah | rephadinam avargaksaratvat yakarasankhya eva kevalam
prapnoti, anirdesat anyatsankhyayah | na rephadinam
yakarasankhya | kutah? yadi rephadinam api yakarasankhya eva syat
tada yakaram eva sarvatra bruyat, na rephadini | "navarasahah
gatvamsakan prathamapatah" iti atra [ra]sahesu ekam eva
avargaksaram bruyat | tasmāt na rephadinam yakarasankhya | ka
tarhi? kecī ahuh ā ekaikavṛddhya rephadinam sankhya,
yakaratrimṣat, rakarah ekatrimṣat, lakarah dvatrimṣat iti adi
| etat na | kutah? ekatrimṣadadisankhyayah anyena eva prakarena
siddhatvat | yakarah trimsat, sa eva yada yakarah
kakarasamyuktah tada hi ekatrimṣat, khakaradibhiḥ dvatrimṣat,
trayah trimsat adih iti sankhya |

anye ahuh ā rephadayah dasottaravṛddhya vardhante iti, rephah
catvarimsat, lakarah pañcasat | evam avargaksarabhavat na
sakyate pratipattum | yatha kat iti acaryena abhihitatvat
ekadyekottarita sankhya vargaksaranam pratipadyate, evam
avargaksaranam api yat iti yada ucyate tada dasottarita sankhya
pratipattum sakyate | anyatha "yat" iti api ucyamane katham dasottarita
sankhya, nanu ca ekottarita syat | na iti aha ā yasmāt kat iti
[vargaksarani] vargasthane upaciyante tasmāt tesam ekottarita
sankhya, yaṇi punar avargaksarani yadīni ekottaropacayāni
avargasthane tasmāt dasottarita eva vṛddhiḥ bhavati, avargasthanasya
dasakasankhyadharatvat | evam tarhi yadgrahanam kartavyam | na
kartavyam | katham? akriyamane ayam arthah avagamyate | akṛtam eva yadi
kṛtam eva, kim iti na pathyate? pathyate eva "nmau yah" | atra ayam
yakarah anackah nmau yah, aparah yakarah api anackah evam
pañcamivibhaktyantah nmau yah | atra ekah yakarah
luptanirdistah pratipattavyah | yatha "kniti ca" [astadhyayi,
1.1.5] iti atra luptanirdistah gakah, kiti giti niti iti, evam
atra api | athava dviyakarocarane api viśesah na asti eva | evam
yad iti asya ayam arthah siddhah | yadi ekottarāni
avargasthanasthitatvat dasottarāni eva bhavanti tada kim iti acaryena
"nmau yah" iti mahaprayasah kṛtah | katham tarhi vaktavyah?
"gah yah" iti gakah trisankhyah, avargasthanasthitatvat eva ayam
trimsatkah bhavisyati | na, nakaramakarasankhyavat eva
sesāni api rephadini catvarimsadadisankhani bhavanti iti
avargasthanasrayat eva siddhe sati nmakaragrahanam kurvan acaryah
jñāpayati iti uktam ā yavanti vargasthanāni tesu sarvesu eva sa
sankhya yugapat prapta, avargaksaranam ca ya sankhya yavanti
avargasthanāni tesu sarvesu eva |

atah tatsankhyānirupanartham aha ā khadvinavake svarah nava varge
avarge | khani sanyāni, khanam dvinavakam khadvinavakam, tasmin
khadvinavake, astadasasu sunyopalaksitesu [sthānesu] | svarah
nava varge avarge | varge vargasthane nava svarah | astadasasu ca

sthanesu nava vargasthanani, tatra navasu vargasthanesu nava svarah
| ke punar te nava svarah grahyah? yadi hrasvah eva kevalam
parigrhyante tada na puryante | atha dirghah eva kevalam parigrhyante
tada api astau svarah bhavanti, nanu lrvarnasya dirghabhavat |
atha hrasvah dirghah ca parigrhyante tada atiricyante, anistam
prapnoti | "jha gda gla rdha dda" [gitikaí, 10] iti atra akarasya
dvitiye ca pratipaditvat dvitiyavargasthane jhakarāsankhya
sthapya mana navasatani syuh, na nava | abhisyate ca navasankhya,
navasankhyakah jhakarāh | tatra hrasvah eva jhakarāh pathyate
iti cet "nr̥si yojanam ñila bhuvyasah" [gitikaí, 6] iti atra
lakare pañcasahasrani syuh, na pañcasat | tatra ca avasyam
dirghah lakarah pathitavyah, anyatha gitih eva bhidyeta | atah
na kevalam hrasvah na kevalam dirghah, na api hrasvadirghah, na
svarah matrkapathit parigrhyante | kasmāt tarhi svarah
parigrhitavyah? ucyate ā yatra nava eva kevalam svarah
pathyante, tasmāt parigrhitavyah | kasmin nava eva kevalam
pathyante? aha ā paniniye vyakarane pratyahare a i u r l e o
ai au iti ete nava svarah | tatra prathame vargasthane akarāh, dvitiye
ikarāh, tr̥tiye ukarāh, iti adi | evam svaropalaksitesu
vargasthanesu vargaksarasankhya | avargaksarasankhya ca
svaropalaksitavargasthanottare avargasthane |

athava varge avarge iti ayam vipsa, varge avarge ca, vargasthane
avargasthane ca te eva nava svarah | tad yatha ā akarāh prathame
vargasthane tadanantaravargasthane ca | tad yadi vargaksarasamyuktah
akarāh prathamavargasthane "bhrgubudha" iti adisu, sa eva yada
avargaksarasamyuktah tada tatprathamavargasthananantaravargasthane
"navarasaha" iti adisu | evam ikaradisu api svesu
vargavargasthanesu yojyam | atha dirghesu akaradisu katham
karaniyam? ucyate ā yatha te vyakarane akaradayah svarah
astadasaprabhedah, dvadasa bhedah ca lrvarnasandhisvarah
parigrhyante, evam atra api | tena "ñila bhuvyasa" iti adisu
akarāh prathamah eva vargasthanesu | astadasasthanesu yani
vargasthanani avargasthanani ca tesu
vargaksaravargaksarasankhya nirupita |

yada punar astadasavyatiriktesu sthanesu sankhya kasyacit
vivaksita bhavati tada katham karaniyam iti? atra aha ā navantyavarge
va | navanam antah navantah | navante bhavam navantyam | navantyah
ca asau vargah ca navantyavargah | tasmin navantyavarge va svarah
bhavanti, vikalpītah svarah bhavanti | vikalpāh ca kasmimsit katham
upalaksyate? yatha "putracchedyavikalpa apatyacchedyaprakarāh", evam
atra api kenacit prakarena vikalpītah navatyavarge dasame vargasthane
svarah bhavanti | yadi prathame vargasthane akarāh suddhah
vikalpītah sa eva tasmāt vargasthanat dasame vargasthane anusvaradina
vikalpyate, evam ikaradayah svasmāt vargasthanat dasame vargasthane,
punar api ca yavat abhistam bhavati tavat tena api anubandhena svaran
vikalpya sankhyopadestavya | etat paribhasabijam acaryena

sankhyavivaksunam anugrahaya upadistam | svasastravyavaharah
tu Irvarnavargasthanat na atiricyate |

vargaksaranam avargaksaranam ca [ya] sankhya sa
aksarabhihitatvat yavanti vaksyamanani gitikasutresu
aksarani tesam sarvesam eva prapnoti tat ca anistam prasajyeta,
tena atra arthavanti yani aksarani tesam sankhya na bhavet iti etat
vaktavyam | yatha ã "yugaravibhaganah khyughr" [gitika í, 3] iti
atra khyughr-sabdasya sankhya isyate na yugaravibhaganasabdasya |
yadi pratisedhah na ucate tada khyughr-sabdasya yatha sankhya evam
yugaravibhaganasabdasya api prapnoti | sa tarhi pratisedhah avasyam
vaktavyah | na vaktavyah | yadi sarvesam eva aksaranam
gitikasutrapratibaddhanam sankhya syat tada sarvam eva etat sastram
anarthakam syat |

[jyotisasastrapradurbhave vyakhyakaramatam]

atha katham asya atindriyanam sphutagrahagatyarthanam
pradurbhavah? brahmanah prasadena iti | evam anusruyate ã anena
acaryena mahadbhiih tapobhiih brahma aradhita | atah asya
tatprasadena sphutagrahagatyarthanam pradurbhavah iti | aha ca ã

atindriyarthavagategah tapobhiih paropakaraksamakavyadrsteh |
yah alankrteh avyayam anvayasya parasarasya anukrtim cakara ||

iti | brahmanah kutah? brahma svayambhuh jñanarasih | tatah
sarvasam vidyanam pradurbhavah | atah anena lokanugrahaya
sphutagrahagatyarthavacakani dasa gitikasutrani
ganitakalakriyagolarthavacakam aryastasatam ca vinibaddham |
sphutagrahagatyarthahetavah arthah, tasmad sarvada eva nityah,
tesam sabdebhyah avagatih iti sabdabaddhah, yatha
suvarnikarah suvarnam adaya katakakeyurakundaladyalankaram
nispadya nispannam api alankaram bhanktva anyatvam apadayati |
atha ca suvarnasya tapacchedanikasadipariksaanena anyatvam manag api
na bhavati iti arthanam api sadhusabdalanakarananavratabandhaih
viracyamananam ananyatvam iti | srutau api satapathe brhadaranyake
pathyate; tad yatha ã "pesaskari pesasah matram
apadayanyannavataram kalyanataram rupam tanute"
[brhadaranyakopanisat, 4.4.4] iti | evam ayam agamarthah
brahmanah sakasat acaryena adhigatah |

atha anye manyante ã "jyotisam udayamadhyastamayapraptin drstva
pratyaksanumanabhyam paricchidya svadhiviracitam" iti | etat ca na |
jyotimsi ksititalam bhitva purvasyam disi udgatani kramena
ambaramadhyam atitya parasyam disi ksititalam bhitva eva pravisantah
laksyante | etavati udayastamayantare viyatyupalaksanabhavat
jyotisam gatipramanaparcchedah duhsampadyah, gateh
ceyattaparijñanabhavat "etavata kalena iyati gatih etavata
kalena kiyati" iti ganitakarmanah pravartate | pramanaphalarasyoh
aparijñanat apravatteh ca ganitakarmanah grahanam

yugabhaganaparijñanam, yugabhaganaparijñanat
grahagatiparijñanabhavah | yatha atra asvadinam gatih
pratyaksena desakalabhyam saha upapadyate iti atah ganitakarma
pravartate, atindriyatvat grahagateh viyatyupalaksanabhavat na
pratyaksena paricchidyate, katham tarhi agamat
upagatagrahayutigrahanakstrayogagrahanadayah pratyaksikriyante?

anyat ca ã grahadini jyotimsi ksititalam bhittva eva purvasyam
disi udgatani kramena ambaramadhyam atitya ksititalam bhittva eva astam
gacchantah laksyante | jyotiscakrasya pravahaksepah
jyotiscakrapratibaddhah grahah pranmukhah svagatya bhramantah
api laghvya jyotiscakragatya aparam disam asadayantah laksyante,
kulalacakarudhakitavat | tasmāt anya jyotiscakragatih, anya
grahagatih pranmukhi | kutah? yasmāt grahah asvinyam
drstah bharyadisu parasparam pragvyavasthitesu naksatresu
upalaksyate bhacakre, na revatyadisu parasparaparasthitesu | tasmāt
jyotiscakragrahatyoh bhinnatvat udayastamayadesantarapraptyanumanam
upapadyate | tasmāt ayam agamah brahmanah prasadat acaryena
adhigatah iti | grahasya naksatranam ca nityasambandhat
naksatranam niscalatvat grahagatyanumanam iti etat ca na | bahuni
naksatrani tesu grahasya paramaryena bhukteh anekarupatvat
viksepapakramacakravasat daksinottaramachyasannaduracaritvat
grahasya ekasmin eva naksatre gatiparyayena
udayastamayavakranuvakrasambhavat grahagativaicitryam, ganitena ca
ekarupa gatih anumiyate | tasmāt ayam agamah brahmanah prasadat
acaryena adhigatah iti |

anyat ca ã desantaraksavisesat grahagativaicitryam | tat yatha ã
lankayam aksabhavat sarvada eva tulye ratryahani
lankasamipavartinam rohanasimhalanam ca; tatah uttaratah
divasasya vrddhih nisayah hanih, daksinatah nisayah
vrddhih divasasya hanih iti | suryagrahanam api
aksadesantaravasat kvacit khandam, kvacit sakalam, kvacit na eva |
candragrahanam ca iha ghativyatitayam ratryam,
ghatikadesantarapadesasthita grahitarah dinante kathayanti,
purvatah ca yata durodगतasya candramasah grahanam kathayanti |
tasmāt udayamadhyastapraptinaksatrayogaparyayadibhih vicitra iyam
grahagatih desantaraksavisesaih ca ativicitratvam apadyamana na
sakyate anekarupatvat ganitanyayena anetum | na ca kascit evam
prakaranam desakalaparyayena upapadyamananam pratijagarita |
yah ca sarvah ciram jivati sa varsasatam jivati | tasya api yugapat
anekadesantaraksavisesat naksatrayogaparyayadibhih
utpadyamanagrahagatayah yugapat na pratyaksibhavanti | tasmāt ayam
agamah brahmanah prasadat acaryena adhigatah iti | vaksyati ca
ã

sadasajjñanasamudrat samuddhrtam brahmanah prasadena |
sajjñanottamaratnam maya nimagnam svamatinava ||

[golapadah, 49]

iti |

[vedangesu jyotisasastrapradhanyam]

na kevalam jyotisam ayam agamah, vedangam ca | "tasmāt
brahmanena niskaranam sadangah vedah adhyeyah"
[patañjalamahabhasyam, paspasahnikam] sadangesu pradhanam
jyotisam ayanam | kutah asya pradhanyam? yasmāt
anadhitasiksadayah api prag gurupadesat vedan adhiyate, na ca
tesam duradhitam bhavati | na anadhigatajyotisam ayana vedoktan
yajñakalan janate | atha siksaya varnanam
sthanakaranaprayatnani nirupyante ā

astau sthanani varnanam urah kanthah sirah tatha |
jihvamulam ca dantah ca nasikosthau ca talu ca ||

[paniniasikṣa, sloṣ 13]

iti adi | varnah uccaryamanah svaih svaih
sthanakaranaprayatnaih svabhavatah eva asyat niskramanti, na
anyatah | "akuhavisarjaniyah kanthyah, rturasah
murdhanyah |" akuhavisarjaniyah uccaryamana kanthapradesat
eva asyat niskramanti na murdhnah, rturasah
uccaryamanah murdhnah eva na anyasmat pradesantarāt iti | yasmāt
tesam sthanakaranaprayatnah svabhavatah eva siddhah tasmāt
tesam sthanakaranaprayatnah nirarthakah | tatha ca
anadhivayakaranah api brahmanah vedan adhiyate | na ca tesam
duradhitam bhavati | na ca anadhijyotisam ayana vedoktan yajñakalan
janate | vyakaranena kila vedanam rakṣa kriyate | rakṣa api
prajanam parthivaih dustanigrahena sistanugrahena ca kriyate
| evam vedanam sabdarasitvat asadhunam uddharah nigrahah,
sadhunam sabdanam samyak krtah anugrahah iti | etat ca na |
nityah vedah | tesu sabdarasipraksepanam [svatah siddhih],
drstanuvidhitvat chandasah | yah yah sabdah vedesu
pathyate tasya tasya aprasiddhalaksanasya api svayam laksanam
sadhyaṃ pratyayaprakṛtilopagamavarnavikaradibhih | na ca jyotisam
ayanasya api | ye ye vede yajñakalah drstah te sarve eva
jyotisam ayane ganitalaksanasiddhah eva |

anyat ca ā "drstanuvidhitvat chandasah" iti yadi vedesu
drstah eva anuvidhiyate tada nahi kiñcit prayojanam vyakaranena |
atha rgyajuhṣamnam sarvesam eva pratipadanirukteh niruktasya
avyapita | atha chandovicitaih rgyajuhṣamnam nityah eva chandah
nibaddhah | na ca tesam idanim kavyapadapurvah nibaddhah kriyate |
na ca anyunadhikalaksananam rgyajuhṣamnam idanim
anyathakaranam karanam | evam ca bahvrce srutau srutyate, na hi ekena
aksarena dvabhyam va unani chandamsi kriyante iti | na hi evam
vedoktanam yajñakalanam iti kramah srutyate | na hi adhanadisu

samskaresu kalavisesah jyotisam ayanat vina avagamyante | tat
yatha samskaresu ā

evam gacchan striyam ksamam magham mulam ca varjayet |
susthah indau sulaksanyam vidvamsam putram asnuyat ||

[yajñavalkyasmṛtiḥ, acaradhyayah, vivahaprakaranam, sloī 80]

iti | tatra maghamulayoh pratipatticchedau indoh ca susthaduhsthatam
ca nanadhitajyotisam ayana janate | "sa yadi garbham na dadhita
simhya svetapuspya uposya pusyena mulam utthapyā" iti
[paraskaragrhyasutram, kaī 1, kandika 13, suī 1] tatra pusyasya
pratipatticchedau nanadhitajyotisam ayana janate | tatha ca pumsavane
ā "yat ahah pumsa naksatrena candramah [yujyeta] tat ahar
upavasya" iti [paraskaragrhyasutram, 1. 14. 3] | tatra
pumnaksatrani punar vasupusyahastasvatisravanah | etesam
nirupahatanam anukulahatanam ca pratipatticchedau nanadhitajyotisam
ayana janate |

anyat ca ā

namadheyam dasamyam tat dvadasyam va asya karayet |
punye ahani muhurtte va naksatre va gunanvite ||

[manusmṛtiḥ, 2.30] iti | atra punyasya ahnah, naksatrasya
gunanvitasya, muhurtasya va pratipatticchedau nanadhitajyotisam
ayana janate |

anyat ca ā "udagayane apuryamanapakse punyahe kumaryah panim
grhniyat", "trisu trisu uttaradisu", "svatau mrgasirasi
rohinyam ca" [paraskaragrhyasutram, 1.4.5-7] iti atra udagayanadinam
uttaradinam nakstranam vadhuvarayoh anukulanam ca
pratipatticchedau nanadhitajyotisam ayana janate, evamadi pratisakham
samskaranam punyahanaksatramuhurtacodana jyotisam
ayanangavisayah tadvidbhayah eva avagantavyah, na gurupadesat
sampradayavicchedat va avagantavyah | iti adhyeyam jyotisam ayanam |

anyat ca ā chandasah upakarmani "atha atah adhyayopakarma |
osadhinam pradurbhave sravanena sravanyam purnamasyam
sravanasya pañcami hastena va" [paraskaragrhyasutram, 2.10.1-2] iti
atra sravanapurnamasim sravanena yuktam, sravanasya pañcamim
hastena yuktam nanadhitajyotisam ayana janate | anyat ca ā
[chandasah utsarge] "pausasya rohinyam madhyamayam vastakayam
adhyayan utsrjeran" [paraskaragrhyasutram, 2.12.1] iti etat ca | atha
naksatradhanesu "ya asau vaisakhasya amavasya tasyam adadhita
sa rohinya sampadyate" [apastambasrautasutram, 4.3.20;
baudhayanavyakhya] iti atra prag eva rohinya vaisakhasya
amavasyayah pariñānanyogyasya adhanadravyasya arjanam rtvijam ca
varanam iti etat ca jyotisam ayanangavisayam, tadvidbhayah eva
avagantavyam, na gurupadesat sampradayavicchedat va avagantavyam iti
adhyeyam jyotisam ayanam | tatha ca "krttikasu agnim adadhita"

[taittiriyaabrahmanam, 1.1.2.1] evamadi naksatradhanacodanah ca
"pasvijya samvatsare [samvatsare], pravrsi avrttimukhayoh va"
[katyayanasrautasutram, pasubamdhaí, 1-2] iti avrttimukhayoh
pratipatticchedau vedinam anadhitajyotisam ayana [na] janate | anyat ca
ã "darsapaurname sabhyam yajeta" [satapathabrahmanam, 11.2.5.10] iti
evamadi codanah ca [srauta]smartesu ca karmasu "aparapakse sraddham
kurvita urdhvam va caturyyam"
[paraskaragrhyasutraparisistakarabhasyam, sraddhasutram 1] |

api nah sa kule jayat yah nah dadyat trayodasim |
payasam madhusamyuktam varsasu ca maghasu ca ||

[manusmr̥tiḥ, 3.264]

iti |

kim bahuna, srautasmartavisayanam tithinaksatavisayanam
karmanam nityanam kamyam ca na jyotisam ayanat vina
samarambhah, iti adhyeyam jyotisam ayanam |

[lokavyavahare jyotisasastropadeyata]

lokah ca tithinaksatramuhurtavisayanam [sambandhena eva] subhesu
karyesu pravartate | tatha ca puspaphalapanih sarvah eva
daivajñam upetya prcchati ã "kada me kim bhavisyati? kada aham
krsyadikarmani pravarte? kada aham daivajñakena upatisthe? kada
aham adhvanam prapadye? kada rajanam pasyami? ihasthasya subham me
bhavisyati ahosvid anyasthanagatasya? kena karmana pravrttasya me
phalam bhavisyati?" iti etat daivajñat avagatarthah sarvah eva
subhesu karyesu pravartate | asubhesu api ã "kada paradesam
didhaksuh aham pravarte? kada vairinah vinasaya pratisthe?
kada gajavaharanam [vidadhe]? kada puram gramam va ghatayami?" etat
ca daivajñat avagatya sarvah pravartate | mlecchadayah api ca
sakunanimittasvapnabalat eva karyesu pravartante | yasya ca yatkiñcit
subham bhavati sa braviti "subhanaksatramuhurtesu aham agatah",
yasya va yatkiñcit skhalitam bhavati sa braviti ã "mama naksatrapida
vartate, na anukulah grahah" iti | tatha ca hastisiksavidah
svasastroktatithinaksatresu eva paribandhadihastikarmasu pravartante |

paksacchidresu tithayah ye yasya -ravah mata|

tesu tesu paripravesabandham ca parivarjayanti |

naksatram hastinam praha svayam eva prajapatih |
hastahastavisuddhah hi hastinam karma kirtyate ||

iti adi | tatha ca asvasiksayam ã

asvinyam revatau pusye punar vasyoh ca karayet |
vajinam sarvakarmani svatau varunahastayoh ||

iti | tatha ca visatantre ã

krttikasu visakhasu maghasu bharanisu ca |
sarpe mule tatha ardrayam sarpadastah na jivati ||

aviddhamlecchadayah api ca na subhatithinaksatramuhurtan ullanghya
pravartante | tatha ksutaruditakrustapratyaskhalitasravanam
pariharanti |

trnakasthabharalavanasthimattonmattaklibahidarsanam pariharanti

|

sitakusumasvaduphaleksuvamsa[mbara]sa[ma]lankrtastripurnakumbha
didarsanam abhinandanti | iti adhyeyam jyotisam ayanam lokanugrahaya |
iti evam idam prathamam gitikasutram || 2 ||

[grahanam yugabhaganah]

grahanam yugabhaganapradarsanaya aryam aha ã

yugaravibhaganah khyughr sasi

cayagiynusuchlr ku nisibunlrskhr prak |

sani dhunvighva guru khri-

cyubha kuja bhadlijhnukhr bhrubudhasaurah || 3 ||

asyah padani ã yugaravibhaganah, khyughr avibhaktikah
nirdesah, sasi avibhaktikah eva, cayagiynusuchlr avibhaktikah,
ku avibhaktikah eva, nisibunlrskhr avibhaktikah, prak, sani,
dhunvighva, guru, khriCyubha, kuja, bhadlijhnukhr, etani sanyadini
api ca padani avibhaktikanirdistani eva | avibhaktikanirdesah anyatra
api drsyante "aiun rlk", "sarvavisva" ityadisva ca |
bhrubudhasaurah |

[yugaravibhaganah] | yuge ravibhaganah yugaravibhaganah, yugasya
va ravibhaganah yugaravibhaganah | yugam kalakriyapade vaksyate
| atha atra dvandvanirdesah kasmata na bhavati? ã yugam ca
ravibhaganah ca yugaravibhaganah, yugam khyughr ravibhaganah
khyughr iti | evam ca sati dvandvanirdese yat tat kalakriyapade
vaksyate, tat eva na vaktavyam bhavati | satyam, kintu traikasikam na
siddhyati | saptamasamase sasthisamase va kriyamane traikasikam
siddham | yadi divasasankhye varsasankhye va yuge yathanirdistah
grahabhaganah labhyante tada asmin nirdiste kiyantah iti
tatkalamadhyamagrahabhaganadayah labhyante | sasthisamase ca yad
yasya divasasankhyasya varsasankhyasya yugasya yathanirdistah
grahabhaganah labhyante, asya istasya kiyantah iti
madhyamagrahabhaganadisiddhih | dvandve punar na etat siddhyati | asau ca
atra yugabhaganasabdah sarvatra adhikararthe prayujyate | adhikare ca
yatha yugaravibhaganah evam yuge sasibhaganah ityadi | anyatha
kasmin kale kasya va kalasya ete grahabhaganah iti etat ne
nirdistam bhavati | tasmata sasthisaptamisamasabhyam
anyatarena vyakhyeyam, arkena eva grahanam yugaprasiddheh | uktam ca
ã

visistadesakalarkabhadhiparyayayogajah |

kalah grahat ca sadasadvargah syat vyavaharikam ||

iti | uttaratra api adhikartham raviyugabhaganasabdah
sambandhaniyah, raviyuge sasibhaganah raviyugasya va iti | katham
idam? [raviyugabhaganah iti] pathantare api dvandvanirdesat
sasthisaptamyarthah durlabhah bhavet adhikarah ca | evam tarhi
ekasesanirdesah atra pratipattavyah, raviyugabhaganah ca
raviyugabhaganah ca raviyugabhaganah iti | ekena
raviyugabhaganasabdena raviyugabhaganah ca
raviyugabhaganapramanasamsiddhih dvitiyena
sasthisaptamisamasabhyam trairasikasiddhih iti | yadi evam
yugaravibhaganasabdena api ayam arthah sakyate jñatum, na kiñcit
pathantare prayojanam |

yugaravibhaganah kiyantah? ucyante ã khyughr | ukaravargasthane
ayam khakarah yakarah ca, tena ukaravargasthane dvatrimasat | ghr
rkaravargasthane ghakarah, tena tasmin sthane catvari | evam ekatra
tricatvarimsat laksa vimsatisahasrani | ankaih api 4320000 |

sasi cayagiyinusuchlr | prakrtadhikarayugabhaganasamyogena
sasisabdah vyakhyeyah ã yugasasibhaganah | atra api tau eva
samasa | yugasasibhaganah cayagiyinusuchlr | purvavat eva
vargavargasthanesu sankhya sthapaniya |
rasagniramadahanesvadrilasailimukhah | ankaih api 57753336|
ku nisibunlrskhr | tatha eva yugakubhaganah tatha eva
svasthane api vinivesitah,
khambaresvadiramasviyamastatithayah, 1582237500 |
bhacakrapratibaddhani naksatrani tasya bhacakrasya pravahaksepavasat
aparam disam asadayanti | naksatrani [bhuvam] grahavat svagatya
pranmukhim bhramantim iva pasyanti iti anaya yuktya bhuvah
bhagananirdesah |

prak | ye ete grahah vivasvadadayah pranmukhah bhramanti | yadi
api bhapañjarpravahaksepap apagacchanti disam, tatha api ete svagatya
pranmukham eva gacchanti | alpatvat gateh kalantarena pracim disam
asadayantah laksyante, kulalacakrasthakitavat | yadi ete
pragatayah na syuh, tada asvinyam drstah [grahah]
bharanyam na upalaksyeta | yadi ete aparabhimukhah syuh, tada
asvinyam drstah revatyam upalaksyeran | tasmāt ete
pranmukhah eva bhramanti iti atah "prak" iti |

kim punar bhuhaganopadesa prayojanam iti aha ã "ravibhuyogah
[bhudivasah]", [kalakriyā, 5] iti bhudivasanayanam | na etat asti,
prakarantarani spannatvat kudivasanam | yadi api ayam eva
kudivasapratipatteh upayah syat tatha api upadesagauravat na yujyate |
ka upadesaguruta? ucyate ã "ku nisibunlrskhr" iti
kubhaganopadesah, "ravibhuyogah bhudivasah" iti
bhudivasopadesah | katham tarhi abhidhiyate? ucyate ã
bhudivasapramananirdesah | evam laghutaraprakarah | tasmāt na ekam

prayojanam upadesasya etavatah karanam bhavitum arhati | anyat api
prayojanantaram asti iti aha | tat yatha ã kaliyatabhubhaganaih sarve
eva grahah minamesasandhyudayakalavadhayah aniyante |
kali[yata]ravimandalaharganasamasah [eva] kaliyatabhubhaganah
| taih trairasikam ã yadi yugaprasiddhabhubhaganaih
istagrahabhaganah minamesasandhiprarabdah prapyante, tada
kaliyatabhubhaganaih kiyantah iti istagrahabhaganadayah |
athava suryodayakalavadheh eva grahah aniyante | katham?
ravibhaganah yatahargane ksiptva taddivasasuryarasyadin ca
adhah vinyasya istagrahabhaganaih kramena samgunayya
svacchedaih sastyadibhih bhaktva upari upari aropya tatha eva
bhubhaganaih vibhajeta, labdham istagrahamandalani | sesam
dvadasadigunitam krtva tad avasistam [adhah adhah] praksipyta
tatha eva ca apahrte rasyadayah | athava,
ravimandalaharganayogam dvadasabhih samgunayya
raviyatarasayah praksipyante, trimsata bhaganityadi [arghat
trimsata samgunayya raviyatabhagan praksipet iti adi] karma
krtva khakhasadghanacchedarasim nidhaya trairasikam ã yadi
yugabhubhaganaih abhistagrahabhaganah labhyante, tada
khakhasadghanabhagaharabhubhaganaih kiyantah? tena
khakhasadghanagunitayugabhubhaganaih bhage hrte
bhaganadilabdhih | athava, rasyadigunakarasaravarga- [12 x 30 x
60]-khakhasadghana-[21600]yoh gunakarabhagaharayoh tulyatvat
nastayoh abhistagrahabhaganagunitabhuhaganaliptanam
yugabhubhaganah eva bhagaharah, phalam abhistagrahaliptah |

sani dhunivaghva | purvavat saniyugabhaganah dhunvighva,
krtarasesu angamanavah, ankaih api 146564 | guru khricyubha |
purvavat eva, krtasviyamabdhirasagnayah, ankaih api 364224 |
tatha eva kuja bhadlijhnukhr, vedasvivasurasarandhrayamasvinah,
ankaih api 2296824 |

bhrgubudhasaurah | bhrguh ca budhah ca bhrgubudhau, tayoh
saurah | suryasya ime saurah | ke? bhaganah | bhrgubudhayoh
saurah, bhrgubudhasaurah | suryasya ye bhaganah te eva
sukrabudhayoh api khyughr-sankhya iti | etesam yugabhagananam
utpattipratyakhyanam "ksitiraviyogadinakrd" [golapadah, 48] iti
asyam karikayam vyakhyasyamah | evam dvitiya gitih || 3 ||

[grahoccayugabhaganah]

grahoccayugabhaganapratipadanaya aha ã

candrocca rjuskhidha budha sugusithrna bhrgu jasabikhuchr
sesarkah |

candrocca, rjuskhidha, budha, sugusithrna, bhrgu, jasabikhuchr,
etesam avibhaktikah nirdesah, sesarkah |

atra api adhikrtayugabhaganasamyogena eva vyakhyeyam | candroccasya

yugabhaganah candroccayabhaganah, rjuskhidha
navenduyamastavasvabhayah, ankaih api 488219 | budha evam
budhoccayugabhaganah sugusithrna
khasvyambaramuniramarandhradrisasinah, ankaih api 17937020 |
bhrgu tatha eva bhrguccayugabhaganah jasabikhuchr
vasvastagniyamasvisunyadrayah, ankaih api 7022388 |

atra ayam bhrgusabdah, ahosvit bhrgujasabdah? bhrguh nama
bhagavan maharsih tasya putrah sukrah tasya ye bhaganah
nirdisyante; tena bhrgujah iti, athava bhargavah iti nirdesyah |
yadi ayam bhrgujasabdah, tada sabikhuchr iti ete bhaganah
prapnuvanti, jasabikhuchr iti ete ca isyante | katham tarhi atra
bhrgusabdah eva vijñeyah, yat uta bhrgujasabdah? bhrgusabdah
eva vijñayate | kutah? anyatra bhrgujasabdasya asravanat | atra
sastre bhrgujasabdena na kvacit sukrah acaryena nirdistah |
tena tarhi bhrgusabdena bhrgugurubudhasani iti adi yadi api ucyate,
bhargavasabdena nirdesah kartavyah, na bhrgusabdena, bhrgoh
apatyam bhargavah iti | na esah dosah, bhrgoh apatyam bhrguh
iti api bhavati, "yatha babhruh, manduh, lamakah"
[astadhyayi, 3.1.2. patañjalabhasyam] iti | babhroh apatyam
babhravyah iti adi vaktavye babhruh iti ucyate, evam mandavyah
manduh | tatha eva bhargavah bhrguh |

sesarkah | nirdistebhyah ye anye te sesah, te ca
sanigurubhaumah | tesam sesanam | arkasya ime arkah | ke?
bhaganah | sesanam arkah, sesarkah |
"khyughr" tulyah eva uccabhaganah sanigurubhaumanam | yatah
suryadayah vigrahavantah paribhramantah rasisu upalaksyante, tena
tesam bhaganah kirtyante | ete punar sasyuccadayah na eva
laksyante; tesam katham bhaganah bhavanti, alaksyamanatvat iti?
atra ucyate ã atra candradinam eva [svocasthitanam bhaganah] |
athava sphutagrahagatih atra sadhyate | tasyah sadhanopayah
madhyamah, sigrhah, mandah, paridhayah, jya iti adayah | sa ca
sphuta grahagatih etaih upayaih sadhayitum sakyate, na anyatha |
yatha prakrtipratyayalopagamavarnavikaradibhih upayaih
sadhusabdah sadhyate, evam atra api | tasmad upayah upeyasadhakah
| tesam na niyamah | uktam ca ã

upadayah api ye heyah tan upayan pracaksate |
upayanam ca niyamah na avasyam avatisthate ||

[vakyapadiyam, 2.38]

iti | tasmad upayamatratvat na dosah |

[patayugabhaganah]

atha patabhaganapradarsanartham aha ã

buphinaca pataviloma

adhikrtayugabhaganasamyogat yugapatavilomabhaganah | buphinaca
rasasviyamadasraghiyamah, ankaih api 232226; ete bhaganah |
patasya viloma viparitagatih prasiddha, tena atra
anulomagatijijnasubhih mandalat visodhyate, tasya patasya
anulomagatih bhavati | sa candrat visodhyate | tasmāt
patavisuddhasat candramasah ksepah sadhyate | yadi etavata
prayojanena patah mandalat sodhya anulomah kriyate atra, tarhi
mahaprayasah - patah mandalat sodhyah, sa candrat iti | katham
tarhi? yah eva karanagatapatah candramasi ksipyate, vilomatvat
apacayah ksepah iti | tasmāt uttarah daksinah va viksepah
sadhyate | kim ayam candramasah patah ucyate, nanu ca sarvesam eva
ayam iti? nahi, parisesyat candrasya eva ayam patah, grahanam
patah vaksyante, "navarasaha" [gitikaī, 8] iti | tasmāt
parisistah candrasya eva ayam | nanu suryah api anyah asti? tasya
viksepabhavat patabhavah |

[bhaganarambhakaladinirdesah]

ete grahoccapatabhaganah kasmin kale, kasmin dese, kasmat
jyotiscakrapradesat pravrttah iti etat na jñayate | atah
tatpradarsanartham aha ā
budhahni ajarkodayat ca lankayam || 4 ||
budhahni, ajarkodayat, ca, lankayam |

budhasya ahah budhahah, tasmin budhahni | nanu ca
"rajahassakhibhyastac" [astadhyayi, 5.4.19] iti samasante krte
budhahe iti bhavitavyam | na esah dosah, samasantavidheh
anityatvat | anityah samasantavidhih, kasmin cit bhavati kasmin cit na
bhavati iti | tena budhahni iti api bhavati | budhadivase budhadivarah
anantarkrtayugapavrttau | tena budhadivarat krtayugadi ahar
ganah ganyate | ajarkodayat ajah mesah | arkasya udayah
arkodayah | ajah ca arkodayah ca ajarkodayah | "sarvah dvandvah
vibhasayam ekavat bhavati" [astadhyayi 2.2.29,
patañjalabhāsyam] iti ekavat bhavah | tasmāt ajarkodayat,
mesadeh arkodayat ca | mesadeh bhaganapradesat suryodayat ca
lankayam ete grahah svan svan bhaganan bhoktum arabdhah |
mesadeh yasmat ete pravrttah tasmāt esu grahesu na ksepah
na apacayah | yasmat suryodayat tasmāt ardharatryadisū
kalavisesesu yatha istam svabhogaih sañcalanam, yatah
lankayam tatah anyesu desesu desantararekhayah purvatah
aparatah vyavasthitesu desantaraphalapacayah ksepah ca | cakara
etan eva arthan samuccinoti | budhahni arkodayat lankayam iti | evam
tritiya gitih || 4 ||

[alpamanam tadgatapramanam ca]

kalpayugamanvantaranam gatagatapratipadanaya aha ā
kahah manavah dha manuyugah
gah skha gatah te ca manuyugah chna ca |

kalpadeh yugapadah

ga ca gurudivasat ca bharatat purvam || 5 ||

kahah, manavah, dha iti avibhaktikah nirdesah, manuyugah, skha
ayam api avibhaktikah eva, gatah, te, ca avibhaktikah, manuyugah,
chna [avibhaktikah], ca, kalpadeh, yugapadah, ga avibhaktikah eva,
ca, gurudivasat, ca, bharatat, purvam |

kah iti prajapateh akhyanam | kasya ahah kahah, brahmadivasah iti
arthah | tasya kahasya kiyat pramanam iti aha ã manavah dha |
caturdasa manavah kahasya pramanam | brahmanah divase caturdasa
manavah parivartante | ekaikasya manah kiyat kiyat antaram iti aha ã
manuyugah skha | dvasaptatiyugani manah manoh antaram | atra katham
ucyate tad dvasaptatiyugani manoh antaram iti | anye punar anyatha
manyante ã

tad ekasaptatigunam manvantaram iha ucyate |

iti | ekasaptatih caturyugani manoh antaram | atra katham? ucyate ã ye
evam manyante tesam purvaparavirodhah | ekasaptatih caturyugani
manoh antaram iti uktva ta evam punar api aha ã

sahasrayugaparyantam ahar yat brahmanah viduh |
ratrim yugasahasrantam te ahoratravidah janah ||

[srimadbhagavadgita, 8.17; manusmr̥tiḥ, 1.73]

iti | tatra ekasaptatih caturdasabhiḥ gunitani na eva yugasahasram
bhavati | tasmāt ucyate purvaparavirodhah | yadi ekasaptatih manoh
antaram, katham caturdasamanvantarāni yugasahasram bhavati? asmakam tu
dvasaptatih caturyugani manoh antaram | astottaram sahasram
brahmah divasah iti etat upaṅnam |

tesu manusu caturdasasu kiyantah manavah vyatikrantah iti aha ã
gatah te ca | gatah ca-sankhya, sat iti arthah | saptamasya
manoh kiyanti yugani iti aha ã manuyugah chna | manoh saptamasya
vyatitani saptavimsatih yugani | astavimsatitamasya yugasya
padah vyatitah ga trisankhyah krtatretadvaparasamjñitah
| ca padapurane | gurudivasat ca bharatat purvam | guroh divasah
gurudivasah, tasmāt gurudivasat, bharatat ca purvam | gurudivasena
upalaksitat bharatat purvam iti samanyena abhihitatvat kaliyugadeh
purvam iti vyakhyeyam | anyatha purvasabdāt atiricyate | ete manavah,
etani ca yugani, ete ca yugapadah vyatikrantah | cakara etan eva
arthan samuccinoti |

atra etat prastavyam ã kim etani yugani yugapadah ca
tulyapramanah ahoṣvit bhinnapramanah iti? kecit ahuh
bhinnapramanah iti | tad yatha ã

catvari ahuh sahasrani [varsanam yat krtam yugam] |
tasya tavat sati sandhya sandhyamsah ca tathavidhah ||

itairesu sasandhyesu sasandhyamsesu ca trisu |
ekapayena vartante sahasrani satani ca ||

[manusmr̥tih, 1.69-70]

asmakam punah tatra yugapadah sarve eva tulyapramanah | anyatha
atitanagatagrahagatiparijñanam eva na ghatate | ayam ca
yugadigatanirdesah grahagatiparijñanaya eva | tad yatha ā
sanmanavah vyatikrantah iti | sannam ca manunam vyatitani
yugani dvyagnyabdhayah, 432 | etani ca saptamasya manoh
saptavimsatih yugani, tatsahitani navesu abdhayah, 459 | etani
vyatitayugani varsani kriyante | katham? khyughr-sankhyani
varsani yugapramanam | tena khyughr-gunani varsani,
vasvastasvivasturandhrarupani ayutagunani, 1982880000 | etani ca
astavimsatitamayugasya padatrayasya varsani krtasvyagnayah
ayutagunah 3240000, etaih sahitanī arkartuvasurandhrarupani
ayutagunani 1986120000 etavan kalah kaliyugadau brahmadivasya
atitah | yavanti varsani atitani kaliyugasya tavanti atra
prakspya aharganah kriyate | asmin ahargane guroh prabhrti
dinavarah, krtayugadyahargane budhat, kaliyugadeh sukrat |
"budhahni ajarkodayat ca lankayam" iti krtayugadau
budhavasarpadesat kalpadeh guruḥ abhyuhitah, kaliyugadeh ca
bhrguh | evam kalpadyahargane, krtayugadyahargane va kriyamane
na kasyadit ksepah |

yada punah kaliyugavyatitat eva aharganah kriyate, tada sasyuccasya
rasitrayam ksepah, patasya sadrasayah | katham?
[dvapa]rantaharganam patabhaganaih sasyuccasya bhaganaih ca
prthak prthak samgunayya bhudivasaih bhagalabdhani mandalani,
sese dvadasagunite bhudivasaih apahrte sadrasayah patasya,
sasyuccasya ca trayah rasayah labhyante | athava caturbhiḥ samaih
yugapadaih patabhaganah sasyuccabhaganah ca labhyante, tat
etaih samaih tribhiḥ yugapadaih kiyantah iti bhaganah labhyante
| sese dvadasagune [caturvibhakte rasayah] iti | evam idam caturtham
gitikasutram || 5 ||

[grahanam kaksyapramanani]

ete grahah bhramantah kiyatpramanasu kaksyasu bhramanti iti etat na
jñayate, tatjñanartham aha ā

sasirasayah tha cakram,
te amsakalayojanani ya-va-ñā-gunah |
pranena eti kalam bham,
khayugamse grahajavah, bhavamse arkah || 6 ||

[sasirasayah, tha avibhaktikah, cakram, te, amsakalayojanani,
ya-va-ñā-gunah, pranena, eti, kalam, bham, khayugamse,
grahajavah, bhavamse, arkah]

sasigrahanat abhihitah sasibhaganah parigrhyante | te

sasibhaganah rasayah kartavyah | katham iti aha ā tha cakram,
dvadasarasayah cakram bhavati iti | sasibhaganah
cakrasamjñitah dvadasabhih gunyante, tatah te rasayah
bhavanti | te rasayah amsakalayojanani kartavyah | katham iti aha
ā te amsakalayojanani ya-va-ñā-gunah | "ya"gunah rasayah
amsah, "va"gunah kalah, "ñā"gunah yojanani | evam imani
akasakaksyayojanani bhavanti |
vyomambarakharasadrisukhayamadrissagaradivedaravayah, ankaih api
12474720576000, akasakaksya | yavantam akasapradesam raveh
mayukhah samantat dyotayanti tavan pradesah khagolasya paridhih,
khakaksya | anyatha hi aparimitatvat akasasya parimanakhyanam na
upapadyate |

candramasah lipta dasayojanani iti atah anutvat candrabhaganaih
eva upadista khakaksya | anyesam bhaganaih api esa sakyate
eva | nanu tad yatha ā raveh yugabhaganah liptikrtah
dvayekagniramanavakah dasalaksabhyastah, te ca ankaih api
93312000000 | raveh liptayojanani ramagnindavah,
yojanastadasasahastrabhagah ca randhravasvagniravayah, ankaih
api likhyante 133 12389 18000 | etaih yojanaih yojanabhagaih ca
gunitah yugaravilptah khakaksyayojanani bhavanti | sanaih
carasya api liptayojanani khavedarandhragnayah,
rupabdhirasangaramamsah khakasastadrindavah,
ankaih api 3940 17800 36641 | etaih yugasanaih caralptah
gunitah tani eva khakaksyayojanani bhavanti | evam
anyabhaganebhyah api khakaksyayojanani bhavanti |

pranena eti kalam bham | nanu ca atra kaksyah prakrantah, tasu
prakrantasu "pranena eti kalam bham" iti etat aprakaranikam | na etat
asti | etani sutrani | sutresu ca kecit arthah prakaranikah
kecit aprakaranikah, vicitratvat sutranam | pranena ucchvasena,
eti gacchati, kalam liptam, bham jyotiscakram |
pravahena-aksipyamanam jyotiscakram kalam eti ucchvasatulyena
kalena | jyotiscakram liptanam khakhasadghanam, tat ahoratrena
paryeti | ahoratrasya pranah khakhasadghanatulyah | tena kalah
ca jyotiscakrasambandhah pranah ca tulyah | tasmāt
chayakaranadisu pranesu eva jydikam karma pravartate |
jyotiscakrahoratrayoh adih ravyudayat iti kalakriyapade vistarena
vyakhyasyamah |

grahakaksyapradarsanartham aha ā khayugamse grahajavah | kha iti
anena purvanirdista khakaksya parigrhyate | yugagrahanena
yugasambandhinah grahanam bhaganah parigrhyante | yadi
khayugamse grahajavah iti yugam parigrhyate, ekatvat yugasya eka eva
sarvesam grahanam kaksya syat | khasya yugamsah
khayugamsah | khakaksyayah svaih svaih yugabhaganaih bhage
hrte yat labdham tat yugamsah | tasmin yugamse | grahanam
javah grahajavah | javah vegah gatih iti arthantaram | tavati

paridhipradese grahah paribhramanti, svaih svaih gativisesaih |
khakaksyayam svaih svaih yugabhaganaih bhage hrte yathasvam
grahakaksyah bhavanti | [katham?] ucyate ā
trairasikaganitavisesena | "sastya suryabdanam"
[kalakriyaí, 12] iti atra khyughr-tulyaih arkavarsaih
khakaksyatulyani yojanani sarve eva grahah purayanti iti vaksyati |
tena yadi etavadbhiih yugabhaganaih istagrahasya [= istagrahasya
yugabhaganaih] khakaksya [labhyate], tatah ekena bhaganena ka iti
svakaksya labhyate |

bhavamse arkah | bhasya vamsah bhavamsah,
naksatraparidheh sastyamsah suryakaksya bhavati | katham
ucyate naksatrakaksyayah sastibhagah suryakaksya iti,
naksatrakaksyayah asiddhatvat? na atra suryakaksya abhidhiyate |
kim tarhi? naksatrakaksya | katham? ya atra suryakaksya sa
naksatrakaksyayah sastibhagah | suryakaksya ca
"khayugamse grahajavah" iti anena siddha yadi naksatrakaksyayah
sastibhagah tada sarva naksatrakaksya kiyati bhavati iti
sastya gunyate, tada tasyah naksatrakaksyayah pramanam
bhavati | sa ca vasugaganambarasunyarasaviramadrisasinah,
ankaih api 173260008 | vicitratvat ganitanirdesasya kvacit rasih
sakalah abhidhiyate, kvacit raseh ekadesah | atra punah raseh
ekadesena sastyamsena sakalah rasih abhyuhyate |

istagrahakaksyabhiih istagrahayojanakarnah aniyante | yadi
ā

caturadhikam satam astagunam dvasastih tatha sahasranam |
[ganitapadah, 10]

iti etavata paridhina ayutapramanaviskambhardham labhyate, tada
istakaksyaparidhina kim iti tat-kaksyayojanaviskambhardham
labhyate | tad eva yojanakarnah svasphutajijñamsubhih
sphutikriyate | yadi vyasardhaliptabhiih iyanistayojanakarnah
labhyate, tada tena avisesakarnena bhutaragrahavivarena kiyam
yojanakarnah iti sphutayojanakarnah labhyate | evam idam pañcamam
gitikasutram || 6 ||

[bhu-sasi-grahanam vyasah]

yojanani iti uktam | tesam yojananam pramanam na jñayate |
tatparijñanartham bhugrahanam vyasapramanapratipadanartham ca
aha ā

nrsi yojanam, ñila bhu-
vyasah arkendvoh ghriña gina, ka meroh |
bhrgu-guru-budha-sani-bhaumah
sasi-na-ña-na-na-mamsakah, samarkasamah || 7 ||

nrsi avibhaktikah, yojanam, ñila avibhaktikah, bhuvyasah,
arkendvoh, ghbiña gina ka iti ete avibhaktikah nirdesah, meroh,

bhrgu-guru-budha-sani-bhaumah, sasi-na-ña-na-na-mamsakah,
samah, arkasamah |

nrnam si nr̥si, astau purusasahasrani | nr̥sih eva
yojanam nr̥si yojanam | "purusah dhanurdandah narah" iti
paryayah | etat uktam bhavati ã astau dhanussahasrani yojanam |
anena yojanapramanena ñila bhuvyasah | "ñila" iti pañcasaduttaram
sahasram | ñila eva bhuvyasah ñila bhuvyasah, "vyasah
viskambhah vistarah" iti paryayah |

anye punar anyatha manyante ã jambudvipaviskambhah, tatah
dvigunottarah samudrah dvipah ca iti anaya prakriyaya
dvigunasredhyah caturdasagacchayah yat sarvadhanam tavat
pramanam tasya iti | etat api ca golapade vistarena vicarya
pratyakhyasyamah | anyat ca tatra eva aksonnatya
bhuparidhiyojananayanam upadeksyamah | atha tu purane
gangadvarakumaryantaralam yojanasahasram ucyate | tat ca [na]
pratyaksena upalabhyate | tat yatha ã lankojjayinyoh antaralam
yojananam satadvayam | lankatah durat uttarena kumari | tatha ca
kumaryujjayinyoh antaralam na yojanasatadvayam api puryate |
ujjayinyah gangadvaram na yojanasatamatram api | evam
gangadvarakumaryantaralam yojanasatatrāyam api na puryate, kim ucyate
yojanasahasram iti | atha anye manyante visayantarabahutvat bhuvah
mahattvam iti | yatha parasava-kulaparvata-[ku]ru- prabhrtayah desah
yojanasatasankhyaya sr̥yante, tena bhuvah mahattvam iti | tat ca na,
golakarāvat bhuvah | tatprsthaparidhyuparicakravavasthitah ete
desah iti etat sarvam eva sambhavati | athava tatra alpapramanani
yojanani sr̥yante, yena ekena divasena vimsatimatrani yojanani
gacchanti iti | tasmā etavan eva bhuvyasah |

bhuvyasah ganitena api anetum sakyate | tat yatha ã sphutatithih
tavat suryagrahane purvaparayoh kapalayoh pare [= parame tithau]
vijñayate eva | tatra parayam [=amayam] tithau udayastamayoh
catasrah nadikah apacyante upacyante va | tatra kale dr̥g̥jya
vyasardham, adityasya [lambanam] madhyamagatya tisrah liptah
satpañcasadvilīptah ca [3' 56"] | candramasah api
dvapañcasallīptikah sardhah [52' 30"] | ubhayoh api
suryacandramasoh viparitakarmana svabhih svabhih
lambanālīptabhih svayojanakarnavabhyasya, dr̥g̥gatijyaya
vyasardhatulyaya vibhajya, suryacandramasoh bhuvyasardham prthak
prthak labhyate | tadvigunam bhuvyasah | atah susthu uktam
acaryena "ñila bhuvyasah" iti |

arkah ca induh ca arkendu, tayoh arkendvoh, vyasah iti
anuvartamanat, ghriña catuscatvarimsacchatani dasottarani [4490]
arkasya vyamsah | indoh gina satatrāyam pañcadasottaram [315] |
suryacandramasoh yojanavyasau etau | liptabhih vyavaharah iti
liptavyasah kriyate ã yadi svayojanakranena vyasardhalīptah
labhyante tada yojanavyasaih kiyantah iti liptavyasalabdhih,

madhyamayojanakarnena madhyamah, sphutena sphutah | ka meroh |
meroh ekayojanam vyasah | etat api ca "meruh yojanamatrah"
[golapadah, 11] iti asyam karikayam vaksyamah |

bhrgu-guru-budha-sani-bhaumah | bhrguh ca guruh ca budhah ca
sanih ca bhaumah ca bhrgugurubudhasanibhaumah | atra api
sastya nirdesah yuktah, bhrgugurubudhasanibhaumanam vyasah
iti | na etat asti | yada vyatirekah vivaksitah tada
vyatirekalaksana sasthi bhavati | yada punar vyatirekan eva na
vivksitah tada sasthi na utpadyate | tat yatha kascit kañcana
braviti "adityasya bimbam pasa" iti | tadabimbavyatirekena adityah,
adityavyatirekana va bimbam nirdistam bhavati | yada punar
avyatirekavivaksa tada yat eva bimbam sa eva adityah |

na ikseta udyantam adityam na astam yantam kadacana [manusr̥t̥ih, 4.37]

iti adi | atra api ayam eva | bimbavyatiriktah grahah nirdisyante |
sasi-na-ñā-na-na-ma-amsakah | sasiivyamsasya anantaroktasya
na-ñā-na-na-mamsakah, ete bhrgu-guru-budha-sani-bhaumah |
sasivyasasya namsah bhrguh pañcabhagah, ñamsah
guruh dasabhagah, namsah budhah pañcadasabhagah,
namsah sanih vimsatibhagah, mamsah bhaumah
pañcavimsatibhagah | etani candrakaksyapramanaparimanani
grahanam vyasayojanani |

atha kim iti svakaksyapramanasambhavani eva ca yojanani na ucyante?
ayam acaryasya abhiprayah ā yadi grahanam svakaksyanispannani
vyasayojanani abhidhiyante tada vyasalīptanayane svakaksyotpannah
sphutayojanakarnah bhagaharah syuh,
lambanadrkksepaliptanayane ca | tatha grahanam manag api
lambanadrkksepaliptah na syuh | drsyante ca tesam
lambananativisesah | tadartham atra bhagaharah pradarsyante |
katham? sasi-na-ñā-na-na-ma-amsakah iti | sasivyasasya
yojanapramanasya liptanayane sasiyojanakarnah bhagaharah | tena
sa bhagaharah pañcadibhih gunyate | sa tavat chedah
sasivyasah sukradivyasah bhavati | sukrasya 315 171885; guroh 315
343770; budhasya 315 515655; saneh 315 687540; bhutanayasya 315 859425;
uparimamsah vyasardhena gunitah chedena vibhaktah liptagatah
grahavyasah bhavati madhyamah | sphutartham punar yatha ā
svabhutaragrahavivarena chedan samgunayya vyasardhena vibhajet,
sphutah bhavanti | te eva grahayogesū bhuvyasardhagunitasya
svadrggateh svadrkksepasya ca bhagaharah, phalam
lambanavanatiliptah iti |

catvari manani vaksyante saura-savana-naksatra-candrani | tatra na
jñāyate kena manena sastre asmin vyavaharah kartavyah iti atah aha
ā samarkasamah | samah varsam, samah asmin sastre arkasamah |
arkena varsena vyavahartavyam asmin | asya eva niscayavagamanartham
vaksyati "sastya suryabdanam" [kalakriyapadah, 12] iti adi |

evam idam sasthan gitikasutram || 7 ||

[paramapakramah grahaviksepah ca]

ete grahah svakakasyasu bhramantah visuvate uttarena daksinena
ca vyavartamanah laksyante | tasmāt tatparijñānartham aha ā

bhapakramah grahamsah,
sasiviksepah apamandalat jhardham |
sani-guru-kuja kha-ka-ga-ardham,
bhrgu-budha kha, scangulah ghahastah na || 8 ||

bhapakramah, grahamsah, sasiviksepah, apamandalat,
jhardham, sani-guru-kuja, kha-ka-ga-ardham, bhrgu-budha, kha
scangulah, ghatastah, na |

bha caturvimsatih | bha eva apakramah bhapakramah |
pranmukha[gamanena] yaddaksinena uttarena va samarekhatah
apagamanam apakramah | kesam ayam apakramah kimatmakah va
caturvimsatih iti aha ā grahamsah | grahanam adityadinam
ete amsakah raseh trimsadbhagah | samarekhatah uttarena
caturvimsatibhagan grahah apakramati mesavrsamithunesu
kramena, tan eva apakramabhagan utkramena karkatakasimhakanyasu
nivartate; daksinena tulavrsicadhanuhsu [kramena] tan eva
utkramena makarakumbhaminesu iti |

atra grahagrahanam kim artham kriyate? grahanam sarvesam eva ete
apakramamsakah yatha syuh iti, anyatha hi kesam eva syuh | na
etat asti | atra grahah prakrantah tesam prakrtatvat grahanam
eva ete amsakah na anyesam | avasyam grahagrahanam kartavyam |
apakramamandalat viksepamsah ucyante | apakramamandalat
jhardham candrah viksipati tatha sanigurukujabhrgubudhah svan
bhagan viksipanti | yasmāt candradinam apakramamandalat
viksepabhagah abhidhiyante atah candradinam eva kevalanam
apakramabhagah api syuh na adityasya | grahagrahane punah
kriyamane sarvesam eva apakramabhagah siddhyanti iti |

sasiviksepah apamandalat jhardham | sasinah viksepah
sasiviksepah | sah apamandalat | apa-mandalam
apakramamandalam, tasmāt apakramamandalat, uttarena daksinena
va candrasya viksepah | visuvan mandalat apakramah uttarena
daksinena va, apakramamandalam [ca], tasmāt viksepah uttarena
daksinena va | jhardham, jhakarena nava, jhasya ardham jhardham,
ardhonapañcabhagah candramasah viksepah | tatha eva
apakramamandalat eva sesanam api grahanam viksepah |

sani-guru-kuja kha-ka-gardham | sanigurukujanam yathasankhyena,
saneh kha, dvau [bhagau] viksepah; guroh ka, ekah bhagah;
kujasya gardham, gakarena trayah bhagah, gasya ardham gardham,
sardhah amsah | bhrgu-budha kha | bhrgubudhayoh kha-sankhya
viksepah dvau bhagau | atra "bhrgubudhasaninam kha" iti ucyamane

khakaragrahanam ekam na kartavyam bhavati, tat kim iti acaryena prthak
pathena dvih khakaragrahanam krtam? ucyate ã prthak prthak
karmapradarsanartham; sanigurukujanam ekam viksepakarma
bhr̥gubudhayoh anyat, tasmã etat karmadvayam iti prthak prthak
pathat eva siddhyati |

"nrsi yojanam" iti atra purusah eva kevalah abhihitah | sah
purusah katyangulah, katihastah va iti etat na upadistam |
tadartham aha ã scangulah | sakarena navatih, cakarena sat,
scangulah sannavatyangulah | angulasya pramanam
ganitaparibhasatah pratipattavyam ã astau
yavamadhyanyangulapramanam iti adi | ghahastah caturhastah | na
purusah | nanu ca "nrsiyojanam" iti atra eva etat vaktum yuktam | evam
manyante | yatha istagrahayogesu antaram viksepaliptah labhyante |
angulani hastan ca krtva grahayoh antaram avadharyam iti | evam api
vijñayate eva kiyatibhih liptabhih angulam bhavati iti | atra
svadhiya pratidinagrahacaraganitanipunataya abhyuhyam | uddesatah tu
svadhiya upalaksitam ucyate ã

yoge padangulam lipta yatha va laksyate drsa |
[mahabhaskariyam, 6.55]

iti | evam idam saptamam gitikasutram || 8 ||

[grahoccapatasthanani]

candrapatat pravrttasya candramasoh viksepah sadhyate |
anirdistatvat patasya, grahanam punah kasmãt prabhrti
viksepah sadhyante eva iti etat na jñayate | atah tesam
patabhaganam mandoccabhaganam ca pratipadanaya aha ã

budha-bhr̥gu-kuja-guru-sani na-va-
ra-sa-ha gatva amsakan prathamapatah |
savituh amisam ca tatha
dva-ñakhi-sa-hda-hlya-khicya mandoccam || 9 ||

budha-bhr̥gu-kuja-guru-sani avibhaktikah nirdesah, na-va-ra-sa-ha
ayam api avibhaktikah, gatva, amsakan, prathamapatah, savituh,
amisam, ca, tatha, dva ñakhi sa hda hlya khicya etani api dvadini
avibhaktikani, mandoccam |

budha-bhr̥gu-kuja-guru[-sani] avibhaktikam etat grahanakavakyam |
sutrãnam sopasamskaratvat samskaram apeksate | kah asya
samskarah? prakrantadyotikaya vibhaktya samyogah,
budha-bhr̥gu-kuja-guru-saninam iti | etesam budhadinam "na"dayah
amsah | yathasankhyena budhasya na vimsatih, bhr̥goh va
sastih, kujasya ra catvarimsat, guroh sa asitih, saneh
ha satam | etan amsakan gatva, etesam
budha-bhr̥gu-kuja-guru-saninam prathamapatah vyavasthitah iti |
prathamapatagrahanam dvitiyapatanirakaranartham | yadi
prathamapatagrahanan na kriyate tada samanyena dvayoh api patayoh

grahanam syat | tatha ca viksepadigrahane niscayah na syat,
yasmāt prathamapatat uttarena grahanam viksepah bhavati,
dvitīyat patat daksinena | uktam ca ā

prathamāt patat sasinah apamandalasya uttarena viksepah |
viksepah daksinatah punar api patat dvitīyat ca ||

iti | ete eva patah sadrasīyutah dvitīyapatah bhavanti | atra
"gatva amsakan prathamapatah" iti ucyate | yadi grahapatah calanti
tada evam yuktam vaktum ā etan amsakan gatva prathamapatah
vyavasthitah iti | badham calanti ete grahapatah, anyatha hi ayam
nirdesah eva na ghatate "gatva amsakan" iti | yadi etesam
grahapatanam [gatih tarhi] candrapatavat yugabhagananirdesah kim iti
acaryena na kriyate ? anyat ca, yadi etesam gatih syat
grahaviksepah na sphutah bhavayuh | atyantasukṣma esam
gatih, mahata kalena kiyati upaciyate, tatah stokatvat antarasya
viksepah sphutah eva lakṣyante | acaryena gatimatvam patanat
nirdesata tesam gatih api nirdista eva "yasmāt ingitena,
cestitena, nimisitena, mahata va sutraprabandhena ca, acaryanam
abhiprayah gamyate" | tasmāt anena eva sutrabandhena grahapatanam
gatimatvam upadisata tesam yugabhaganan muktakat eva
nirdistavan, anyatha hi tesam gatimatvanirdesah anarthakah syat
| sampradayavicchedat smaranti vrddhah tat yugabhaganam | tat yatha
ā

vasvabdhīyamasvikhābanadrisuhutāsanah yugabdaganah |
patanam satagunitah muktakakathitam kila aryena ||

ekatrīdvicaturisun kramasah bhaganan prayanti sarvesam |
kalpadeh gatakalat gananiyam atah gatih tesam ||

tadanayanam idanim ā kalpadeh abdanīrodhat ayam abdarasīh iti
iritah khagnyadrīramarkarasavasurandhrendavah | te ca ankaiḥ api
1986123730 | asmin budhadīpatabhaganagunitē svayugavībhakte
bhaganadayah patabhogah labhyante | patayugapramanam sarvesam
eva "khakasastakrtadīdvīvyomesvadrisuvahnayah" ankaiḥ api
35750224800 | etaiḥ yugavarsaiḥ budhasya patah bhaganam ekam
bhunkte, sukṛasya trīni, kuḥṛasya dvau, guroḥ catvarah, sanīpatah
pañca | etesam yathasvam labdhah patabhagah yathapathitah,
etat eva gurusānīḥ carayoh eka tatpara [ca] labhyate |

ayam aparah prakarah ā budha-bhrgu-kuja-guru-sanī |
prathamabahuvacanasamkr̥tam idam grahanakavakyam vyakhyayate
budha-bhrgu-kuja-guru-sanayah | na-va-ra-sa-ha iti etan amsakan
mesadīparamānoḥ prabhrti gatva prathamapatesu vyavasthitah iti
arthah | atra "tatsthyat tacchabdyam", yatha "mañcaḥ krosanti",
mañcasthesu krosatsu mañcaḥ krosanti iti ucyate | evam atra api
prathamapatavyavasthitan eva grahan prathamapatah iti uktavan | tada
tavantah eva bhagah, na ete calanti | yadi api kaiscit esam gatih
ucyate tatha api asmakam nadarah, yena atimahata api kalena manag api

antaram na bhavati, yatah kaliyugante sanaih carapatasya tisrah
liptah, na kiñcit antaram | kaliyuge ca parisamapte sarvam eva jagat
praliyate, praline ca jagati punar anya srstih jayate, tatra na
janimah kim bhavisyati iti | atha ca antare ne kiñcit antaram, na
kascit visesah | yat api uktam acaryena tat
sastrabhavaprakriyasampradayavicchedapradarsanartham | anyatha hi
anantatvat kalasya gatih esam alpa api upaciyamana mahati
sañjayate | sa ca anyatha na pratipattum sakyate iti
patayugabhagananirdesah |

savituh amisam ca | savituh adityasya, amisam ca grahanam
budhabhrgukujaguruaninam mandoccabhagah, kena eva prakarena
savituh dva astasaptatibhagah, budhasya ñakhi satadvayam
dasottaram, bhrgoh sa navatih, kujasya hda satam
astadasottaram, guroh hlya sasitikam satam, saneh khicya
satadvayam sattrimsaduttaram mandoccam | ete bhagah esam
grahanam prthak prthak mandoccam | mandoccanam bahutvat mandoccani
iti bhavitavyam | na etat asti | samanyopakramah atra krtah, yatha ã
"raksohagamalaghvasandehah prayojanam" [astadhyayi, 1.1.1.,
patañjalabhasyam] iti, evam atra api "dva ñakhi sa hda hlya khicya
mandoccam" |

atra sighroccam mandoccam iti | yasya sighra gatih tat sighroccam,
yasya punar gatih eva na asti tat mandoccam iti | katham? ucyate | loke ã
"sighrah devadattah" yah hi ksiprataram gacchati sa sighrah,
"mandah yajñadattah" iti yah hi mandataram gacchati sa mandah | evam
atra api yasya atisighragatih grahagateh tat sighroccam | yasya punar
grahagateh alpiyasi gatih [tat mandoccam] | evam grahanam api yuktam
eva etat |

atha kim iti mandoccatih na abhihita? ucyate ã sukmatvat acaryasya
na atra adarah, mahata api kalena na kiñcit eva antaram bhavati | api ca
muktakena eva acaryena abhihitam iti sampradayavicchedat avadharyate |
athava gatva amsakan savitradinam mandoccani vyavasthitani iti
vyakhyayate | anyatha hi "tatha"-sabdah sarthakah na syat | yatha
budhadinam prathamapatah "na" din amsakan gatva vyavasthitah,
evam etesam savitradinam mandoccani "dva" din amsakan gatva
vyavasthitani iti | tesam ca mandoccanam atyantasukmatvat
varsaganena eva acaryena yat akhyatam tat eva
avyavacchinna sampradayapratipattya abhidhiyate | tat yatha ã

astikrtadryastinavajaih uccayugam tigmadidhiteh uktam |
dasaghanagunitaih abdaih visvan bhunkte kramat bhaganan ||

dantastabdhyañgunastaramayamalah yugam bhavati abdhah |
satagunitah sasijasya prahuh bhaganan ca sapta eva ||

vyomambaravedakrtacchidrabdhirktabdhinandasailabdah |
sukrasya ardham sureh bhaganah bhogah tayoh ekah ||

vyomambarasunyakrtasvirudrasarasailavasumunindusamah |
asitoccyugam kaujam dvigunan bhaga[na]navesavastu tayoh ||

kalpadikalaganita mandoccanam bhavanti ya gatayah |
"gatva"sabdat etat vyakhyata bhaskarena atra ||

tat yatha ā mandoccanayanam pratyetesam kalpadeh abdanirodhat
gatakalah khagnyadriramarkarasavasurandhrendavah, te ca 1986123730 |
etesu varesu yathasvam mandoccabhaganagunitesu
svayugabdavibhaktesu ravyadinam mandoccanam rasibhagadayah
labhyante | etesam api kaliyugante api alpam antaram, yatah ca sanaih
carasya api saptamatra lipta mandoccasya upacayah, na kascit
phalavisesah | yatha api tu sastrasampradayavicchittikathane
grahapatesu uktam tat atra api avadharaniyam iti | evam idam astamam
gitikasutram || 6 ||

[ojadapadayoh mandasighraparidhayah]

mandasighroccaparidhipramanapratipadanaya aha ā

jhardhani mandavrttam
sasinah cha, ga-cha-gha-dha-cha-jha yatha uktebhyah |
jha-gda-gla-rdha-dda tatha
sani-guru-kuja-bhrgu-budhoccasighrebhyah || 10 ||

jhardhani, mandavrttam, sasinah, cha ga cha gha dha cha jha ete
chadayah avibhaktikanirdesah, yatha uktebhyah,
jha-gda-gla-rdha-dda avibhaktikah nirdesah, tatha
sani-guru-kuja-bhrgu-budhoccasighrebhyah |

jhardhani | jhasya ardhani jhardhani | vaksyamanani
mandasighroccavrttani jhardhapramanani pratipattavyani |
mandavrttam iti ekavacanani nirdesah | "pratyekam vakyaparisamaptih"
[astadhyayi, 1.1.1, patañjalabhāsyam] iti anena nyayena
mandavrttam sasinah cha, sapta jhardhani, sardhaikatrimśat
bhagah; yatha uktebhyah mandoccabhagavidhanakramena
savitr-budha-bhrgu-kuja-guru-sanayah parigrhyante | savituh ga,
trini jhardhani, sardhatrayodasabhagah | budhasya cha, sapta
jhardhani, sardhaikatrimśadbhagah | bhrgoh gha, catvari
jhardhani, astadasabhagah | kujasya dha, caturdasa jhardhani,
trisastibhagah | guroh cha, sapta jhardhani,
sardhaikatrimśadbhagah | saneh jha, nava jhardhani,
sardhacatvarimśadbhagah | yatha uktebhyah yatha uktam yathoktam,
tebhyah yatha uktebhyah | savitradinam ca mandoccebhyaḥ | nanu ca
atra sambandhalaksanaya sasthya bhavitavyam, yatha uktanam iti |
na etat asti | yatha uktebhyah iti anaya pañcamya
mandoccaḥ siddhebhyaḥ rasibhyaḥ mandoccat adhikebhyaḥ rasibhyaḥ
va rasyadibhyaḥ jyavibhagena ete paridhayah gunakarah | yatha
uktebhyah iti anena eva vacanena mandoccam grahamadhyat patyate,
parisistasya jyāsanakalanaya trairasikam kriyate |

paridhisamskarakaranam ca trairasikaprasiddhyartham | yady asya
sastisatratrayaparidheh iyam jya tatah abhistagrahaparidheh
ka jya labhyate | sa eva jya bhujaphalam kotiphalam ca iti abhidhiyate
| tatra jhardhena apavartya sastisatratrayaparidhim yatha uktah ca
grahaparidhayah jhardhapavartitah | tena gunakarabhagaharayoh
jhardhapavartitayoh karmani kriyamane istajyayah asitih
bhagaharah yathoktaksarasankhyaparidhayah gunakarah |

sighroccaparidhayah ā jha, nava jhardhani, catvarimsat sardhah
bhagah saneh | gda, sodasa jhardhani, dvasaptatibhagah
guroh | gla, tripañcasat jhardhani, satadvayam
astatrimasaduttaram sardham bhaganam kujasya | rdha,
ekonasastih jhardhani, pañcasastyadhikasadadvayam sardham
bhaganam bhrghoh | dda ekatrimsat jhardhani,
ekonacatvarimsaduttaram satam sardham bhaganam budhasya |
sani-guru-kuja-bhrghu-budhoccasighrebhyah |
sani-guru-kuja-bhrghu-budhanam uccasighrah tebhayah
sani-guru-kuja-bhrghu-budhoccasighrebhyah |

sighroccebhayah iti vaktavye uccasighrebhyah iti viparitanirdesam
kurvan acaryah jñāpayati ā sighroccat grahah sodhyate iti |
tasmāt suddhasesat jya utpadyante | tabhih trairasikam purvavat |
purvam acaryena mandakramena grahah nirdistah | sasi
sarvebhayah sighrah laksyate, tasmāt mandah savita, tatah mandah
budhah, tatha uttaram bhrghu-kuja-guru-sanayah | ayam punar
sighrakramah, sani-guru-kuja-bhrghu-budhah iti | ete sanyadayah
yatha uttaram sighrah | evam idam navamam gitikasutram || 10 ||

[yugmapadayoh mandasighraparidhayah]

etebhayah eva mandasighrebhyah
dvitiyacaturthapadaparidhipramanaparijñānaya aha ā

mandat na-kha-da-ja-da
vakrinam dvitiye pade caturthe ca |
ja-na-kla-chla-jhna uccat
sighrat, giyinsa kuvayukaksya antya || 11 ||

mandat, na kha da ja da iti etani avibhaktikani, vakrinam, dvitiye,
pade, caturthe, ca, ja na kla chla jhna etani avibhaktikani, uccat,
sighrat, giyinsa avibhaktikah, kuvayukaksya, antya |

mandat | tatha eva mandocavisuddhat rasyadikat utpannayah
jyayah ete paridhisamjñāitah gunakarah | tatha eva
jhardhapramanaparamitah ā budhasya na, pañca jhardhani,
dvavimsatissardhabhagah, bhrghoh kha, dve jhardhe, nava bhagah
| kujasya da, astadasa jhardhani, ekasitibhagah | guroh ja,
astau jhardhani, sattrimsadbhagah | saneh da, trayodasa
jhardhani, astapañcasat sardhabhagah |

vakrinam dvitiye pade caturthe ca | vakram yesam te vakrinah |

vakrinah iti anena sasisavitroh agrahanam, yena tayoh vakra
gatih na asti | vakrinah ca budha-bhrgu-kuja-guru-sanayah | tesam
ete paridhayah | dvitiye pade caturthe ca | ye purvabhihitah
paridhayah te utsargena caturthe padesu praptah | tesam
dvitiyacaturthayoh padayoh ete paridhayah apavadena abhidhiyante |
dvitiyacaturthapadavyatirekena purvoktaparidhinam visayah |
cakarah dvitiyesu ca caturthesu ca iti etat artham samuccinoti |

athava ā vakrinam dvitiye pade | ete budhadayah grahah dvitiye
pade vakrinah bhavanti | vakram gatim caranti iti arthah | nanu ca
mandagrahananantaram dvitiye pade vakrinah iti ucyante, tena
mandocasya dvitiyapade vakraparijñanam prapnoti, tat ca na isyate | na
etat asti | vakrinah dvitiye pade budhadayah iti samanyena ucyate |
"samanyacodanah ca visese avatisthante " iti visese
avasthapyate | kah ca visesah ? sikhroccadvitiyapade etesam
budhadinam vakraparijñanam iti ayam visesah | uktam ca ā

mandoccat anulomam pratilomam ca eva sikhroccat | [golaí, 17]

iti | caturthe ca | ete paridhayah dvitiye caturthe ca pade gunakarah |
dvitiye eva pade vakraparijñanam anyatra api ā

prathame drsyavidhanam dvitiyapadagah tu vakragah sarve |
anuvakragah tritiye pade caturthe astam upayanti || iti |

ja na kla chla jhna | sikhroccat dvitiyacaturthayoh padayoh
paridhayah | saneh ja, astau jhardhani, sattrimsadbhagah
| guroh na, pañcadasa jhardhani, saptasastih sardhabhagah
| kujasya kla, ekapañcasat jhardhani, ardhonakam trimsaduttaram
satadvayam bhaganam | bhrgoh chla, saptapañcasajjhardhani,
sardham satpañcasaduttaram satadvayam bhaganam | budhasya jhna,
ekonavimsajjhardhani trimsaduttaram satam sardham bhaganam |

uccat sikhrat | atra api sikhroccat iti vaktavye uccat sikhrat iti
viparitagrahanam kurvannaccaryah jñapayati ā sikhroccat grahah
sodhyate iti | padacatustayagrahanat ca karmacatustayam ā
prathamam mandocakarma, tadanantaram sikhrakarma, punar mandakarma,
tadanantaram sikhrakarma | tatah grahasphutah labhyate |
ravicanrayoh ekaparidhinirdesat ekam eva karma |

atha kascit jyarahitam karma kartum icchati, tadartham aha ā giyinsa
kuvayukaksyantya | trayastrimsacchatani pañcasaptatyadhikani [3375]
kuvayukaksyapramanam | kuh bhuh, kuvayuh bhusambandhi
vayuh, tasya iyam antya kaksya | etavatah
vayukaksyaparcichinnakasapradesat paratah niyatah vayuh yena
niyatagatina pravahena jyotiscakram idam bhramyate |
kuvayukaksyapramanaparcichinnat akasapradesat aradaniyatah
vayavah itah tatah paribhramanti |

kuvayukaksyayah grahakarma ā ye abhistah bhagah tan
cakrardhabhagebhyah visodhya sesam taih eva abhistabhagaih

gunitam pratirasya ekam kuvayukaksyayah dvadasagunitayah
sodhyate, tatah sesasya yah caturthomsah sa bhagaharah | yat
pratirasitam tat antyaphalena gunitam bhagaharena vibhajat | labdham
abhistaphalam | uktam ca asmabhiih karmanibandhe ã

makhyadirahitam karma kathyate tatsamasatah |
cakrardhamsakasasuhata visodhyah ye bhujamsakah ||

tacchesagunitah dvisthah sodhyah khakhesukhabdhitah |
sesasya caturthamsena dvistham antyaphalahatam ||

bahukotyoh phalam krtsnam kramotkramagunasya va |
[mahabhaskariyam, 7.17-19]
iti dasamam gitikasutram || 11 ||

[caturvimsatijyardhani]

atra asesagrahakarma, tat ca jyapratibandham iti atah jyadarsanartham
aha ã

makhi bhakhi phakhi dhakhi nakhi ñakhi
nakhi hasjha skaki kiska sghaki kighva |
ghlaki kigra hakya dhaki kica
sga jhasa nva kla pta pha cha kalardhajyah || 12 ||

"makhi" adayah nigadena eva vyakhyatah | kalardhajyah | kalah ca
tah ardhajyah ca kalardhajyah | etah jyah
liptapramanaparimitah | ardhajyahbhih yatah sastravyavaharah
tena ardhajya eva ukta || 12 ||

[dasagitikasutraparijñanaphalam]

dasagitikasutraparijñanaphalapradarsanaya aha ã

dasagitikasutram idam
bhugrahacaritam bhapañjare jñatva |
grahabhaganaparibhramanam
sa yati bhittva param brahma || 13 ||

atra paribhasagitikah dasagitikah grhyante | etat
dasagitikasutram bhugrahacaritam | bhuvii loke | grahanam
caritanibandhanatvat etat eva dasagitikasutram grahacaritam,
grahacaritahetutvat va yathasukham krtam iti | bhuvii grahacaritam
bhugrahacaritam | na anyaloke grahacaritanibandhanam asti yatah
dasagitikasutram tena ucyate bhugrahacaritam | bhapañjare jñatva |
bhapañjarah golah, tasmin gole tat grahacaritam jñatva, avagamya,
grahanam sphutagateh pratipattihetuh yatah golah, etat
grahanam bhanam ca paribhramanamargam bhittva param brahma yati |
yah gole samagram dasagitikasutrapratibaddham grahacaritam janati sa
param brahma yati iti || 13 ||

dasagitikasutrārtha vyakhyata bhaskarena mandadhiyam |
pratipattaye prakamam sarvah hi samanabhutaye yatate ||

iti bhaskarasya krtau

dasagitikasutravyakhya parisamapta ||

ganitapadah

[mangalacaranam]

yannamasamsmaranamatrabhavabhavani
sreyah 'subhani vibudhasuramanavanam |
tasmai sakrsnakamalodbhavamaulighrsta-
padaravindayugalaya namah sivaya || 1 ||

acaryaryabhatah tapobhih amalaih aradhya padmodbhavam
yat lebhe grahacarasaravisayam bijam mahartham sphutam |
tasya atindriyagocarathanipunaspastorusadvastunah
vyakhyanam gurupadalabdham adhuna kiñcit maya likhyate || 2 ||

[pratipadyavastunirdesah]

atha acaryaryabhatamukharavindavinissrtam padarthatrayam ã ganitam,
kalakriya, golah iti yat etat ganitam tat dvididham catursu
sannivistam | vrddhih hi apacayah ca iti dvididham | vrddhih
samyogah, apacayah hrasah | etabhyam bhedabhyam asesaganitam
vyaptam | aha ca ã

samyogabheda gunanagatani suddheh ca bhagah gatamulamuktam |
vyaptam samiksya upacayaksayabhyam vidyat idam dvyatmakam eva
sastram ||

samyogasya vrddheh, bhedah gunanagatani | tani ca ã
asadrasyah rasyoh abhyasah gunana, yatha caturnam
pañcanam ca vimsatih | gatam sadrsabhyasah vargah ghanah ca
| dvgatam vargah, yatha caturnam caturnam ca sodasa | evam
trigatam ghanah, yatha caturnam caturnam caturnañ ca
catussastih | "suddheh ca" iti atra yogartham cakarah
pathyate | tena sredhikuttakaradisu loke ca
aniyatasvarupavrdhhih sa ca parigrhita bhavati | suddheh ca
bhagah gatamulamuktam | suddheh apacayasya bhedah bhagah, gatanam
mulani ca | atra api sredhikuttakaradi[su] loke ca
aniyatasvarupah apacayah cakarath eva parigrhyate | evam sastre, loke
ca na sah asti ganitaprakarah yah ayam vrddhyatmakah
apacayatmakah va na bhavati |

yadi evam atra katham prakriya parikalpaniya? yatra caturbhagah
pañcabhagena gunitah jatah vimsatibhagah | iyam ca gunana
samyogasya bhedah ucyate | sa ca ayam suddheh bhedah apatitah |
yatra caturbhagena vimsatibhagasya bhagah, tatra drstah
pañcabhagah | evam ayam suddheh bhedah samyogabhedah apatitah |
ubhayatra parigarah ucyate ã [ekayam avistare caturaraksetre
vimsatyayatacaturaraksetrani |] tatra ekasya ayamah
pañcabhagah, vistarah caturbhagah | tayoh abhyasah phalam

ksetrasya vimsatibhagah | vimsatibhagasya caturbhagah
pañcabhagah iti na dosah | evam ksetraganite pariharah |
rasiganite pariharartham yatnah karaniyah | aparah aha ã
"ganitam rasiksetram dvidha" | evam karaniparikarma ã

karnabhujayoh samatvam karoti yasmat tatah karani |

ganitam dviprakaram ã rasiganitam ksetraganitam |
anupatakuttakaradayah ganitavisesah rasiganite
abhihitah, sredhicchayadayah ksetraganite | tat evam
rasyasritam ksetrasritam va asesam ganitam | yat etat
karaniparikarma tat ksetraganite eva | yadi api anyatre
karaniparikarma, tatha api tasya na karnabujakotipratipadakatvam iti
na dosah | etat ca karaniparikarmatvam yatkarnadipratipadakatvam |
caturstu sannivistam, catvari bijani, tesu sannivistam | uktam
ganitam | kalakriyagolau tatra tatra eva upadeksyamah | atra
acaryaryabhatah sastram arabhamaanah cetasi
istadevatapranamah hi bhaktya prayuktah ã

brahma-ku-sasi-budha-bhrgu-ravi-
kuja-guru-kona-bhaganan namaskrtya |
aryabhatah tu iha nigadati
kusumapure abhyarcitam jñanam || 1 ||

brahma asya istadevata | istadevatapranamah hi bhaktya
prayuktah svabhih lasatestakaryavighatinah vighnan vinihanti |
athava devasuramukutamanimayukhamalalankrtacaranatvat
sarvasam devatanam pradhanatamah brahma, atah tasya adau
namaskriyam krtavan acaryah | athava acaryena
svayambhuvasiddhantasamksepausturacana prastuta,
svayambhuvasiddhantasya ca vidhata bhagavan vedhah, tatah asya
yujyate prathamam pranamah tam kartum | aksadesantarayatta
grahagatih, tau ca aksadesantaravisesau bhuvast iti tat anantaram
namaskrtavan bhuvam | sasyadin upari upari avasthitan
tadgatinibandhanatvat sastrasya iti namaskrtavan | brahma ca kuh ca
sasi ca budhah ca bhrguh ca ravih ca kujah ca guruh ca konah
ca bhaganah ca

brahma-ku-sasi-budha-bhrgu-ravi-kuja-guru-kona-bhaganah | atah
tan brahma-ku-sasi-budha-bhrgu-ravi-kuja-guru-kona-bhaganan,
namaskrtya pranamya iti arthah | bhani jyotimsi asvinyadini,
tesam ganah bhaganah | yat atra sasyadinam upari upari
avasthane vaktavyam tat kalakriyapade vaksyamah | aryabhatah iti
svasamjñabhidhanena anyah svayambhuvasiddhantanusarinayah
krtayah santi iti etat pradarsayati | tena bahutvat
svayambhuvasiddhantanusarininam krtinam kena iyam krtih
krta iti na jñayate | atah svasamjñabhidhanam | yatha
"kautilyena krtam sastram" iti [arthasastram, 1.1.19] | "tu"-sabdah
padapurane | ["iha"-sabdah] asya puram pradarsayati | nigadati braviti
| kusumapure abhyarcitam jñanam | kusumapuram pataliputram, tatra

abhyarcitam jñanam nigadati | evam anusruyate ā ayam kila
svayambhuvasiddhantah kusumapuraniवासिभिः कर्तृभिः पूजितः,
satsu api paulisa-romaka-vasistha-sauryesu | tena aha ā "kusumapure
abhyarcitam jñanam" iti || 1 ||

[sankhyasthananirupanam]

sankhyasthananirupanartham aha ā

ekam ca dasa ca satam ca
sahasram tu ayutaniyute tatha prayutam |
kotyarbudam ca vrndam
sthanat sthanam dasagunam syat || 2 ||

laghvartham sankhyasthanani prakramyante | anyatha hi sankhyasthana
nirupanabhavat guruh ganitavidhih syat | katham?
rupabahutvasthapanayam rupani bahuni sthapayitavyani bhavanti |
satyam punah sthanakalpanayam yat rupaih bahubhih nirvartyam karma
tat ekena eva nirvartayitum sakyate |

ekam ca dasa ca satam ca sahasram | etesam ekadasasatasahasranam
prathamadvitiatrtiyacaturthani sthanani | tu padapurane |
ayutaniyute ayutam ca niyutam ca ayutaniyute | ayutasya pañcamam sthanam |
dasasahasrani ayutam | niyutasya sasthanam sthanam | niyutam
laksah | tatha tena eva prakarena prayutasya saptamam sthanam |
dasalaksah prayutam | kotih, kotyah astamam sthanam |
laksah satam, kotih | arbudam, arbudasya navamam sthanam |
dasakotyah arbudam | vrndam, vrndasya dasamam sthanam | kotisatam
vrndam |

sthanat sthanam dasagunam syat | sthanat sthanam anyat dasagunam
svaparikalpitasthanat uttaram sthanam dasagunam bhavati iti yavat | kim
artham idam ucyate | nanu ca etani sthanani anantarapeksaya
dasagunani eva | yadi ebhyah anyasthanaparigrahartham vacanam tatha
sati sthanabhidhanam anarthakam | kutah? sthanat sthanam dasagunam
syat iti anena eva abhihita, abhihitasthanaparigrahasya siddhatvat | na
esah dosah | sthanat sthanam dasagunam syat iti etat
laksanam | ekadini sthanani asya laksanasya udahrtani | na etat
asti | na hi sutrakarah samksepaivivaksavah laksanam
udaharanam bruyuh | na evam vijñayate | yada laksanam
udaharanam ca nirarthakam tarhi ekadivrndanatayah sankhyayah
samjñah nirupyante | sthanat sthanam dasagunam iti
ekadisamkhyayah sthananirupanamatram eva upadisyate,
upayogabhavat na sankhyasamjñā |

atra etat prastavyam ā ka esam sthananam saktih, yat ekam rupam
dasa satam sahasram ca bhavati | satyam ca etasyam sthanasaktau
krayakah visesestakrayyabhojanah syuh | krayyam ca
vivaksatah alpam bahu ca syat | evam ca sati lokavyavaharan
yathabhavaprasangah | na esah dosah | sthane vyavasthitani

rtupani dasadini krtani | kim tarhi taih? tani pratipadyante
lekhagamanyayena | athava laghvartham sthanani prakramyante iti uktam
asmabhih | nyasah ca sthananam ā

0 0 0 0 0 0 0 0 0 || 2 ||

[vargaparikarma]

vargaparikarmapradarsanaya aryapurvardham aha ā

vargah samacaturasrah phalam ca sadrsadvayasya samvargah |

vargah karani krtih varganah yavakaranam iti paryayah |
samascatasrah asrayah yasya sah ayam [sama]caturasrah
ksetravisesah, sa vargah | samacaturasraksetravisesah
samjñi, vargah samjñā | atra samjñisamjñayoh abhedena
upacarena ucyate "vargah samacaturasrah" iti | yatha
"mamsapindah devadattah" iti | anyatha atra yavan
samacaturasraksetravisesah tasya sarvasya anistasya api
vargasamjñaprasangah | kva anyatra anistasya
samacaturasraksetravisesasya vargasamjñaprasangah? ucyate ā
asamakarnasya

parilekhau 1 & 2

samacaturasraksetravisesasya asya (parilekhah 1) |
dvisamatryasraksetrasya samunnatavadavasthitasya asya (parilekhah 2) |

vargasamjñaprasange kah dosah? ucyate ā "phalam ca
sadrsadvayasya samvargah" iti sadrsadvayasya samvargah phalam
prapnoti, na ca isyate evam | kva tarhi? karnagrahanam kartavyam;
vargah samakarnasamacaturasraksetravisesah iti | athava
tulyasankhyabhyam karnabhyam upalaksitasya eva
samacaturasraksetravisesasya vargasamjñā jijñasyate | kutah? na
anistarthatvat sastrapravrtteh | athava na eva loke evam
akaravisistasya samacaturasraksetrasya samacaturasrasamjñā
susiddha | ayatacaturasraksetradisu vargakarmanah astitvat
tesam asamacaturasranam api vargasamjñaprasangah | na esah
dosah | tesu api yah vargah sa samacaturasraksetraphalam | tat
yatha ā samacaturasraksetram alikhya astadha vibhajya
trikacatuskavistarayamani catvari ayatacaturasraksetrani
pañcakarnani parikalpayet | tatra evam
parikalpitacaturasrayatacaturasraksetrakarnabahukam samacaturasram
ksetram madhye avatisthate | yah tatra
ayatacaturasraksetrakarnayatavargah, sa ca
antahsamacaturasraksetre phalam | tribhuje api etat eva darsanam,
ardhayatacaturasratvat tribhujasya | durvidagdhapratyayanaya ca ksetram
alikhya ā

parilekhah 3

asmad yah yah vargah samacaturasraksetravisesah | evam phalam ca

sadsadvayasya samvargah | samvargah iti asya samacaturasrasya
ksetraphalam nirucyate | sadsasya dvayam sadsadvayam | athava
sadsadvayam ca tadvayam ca samasadsadvayam | sadsadvayasya
samvargah | samvargah ghatah gunana hatiruddhartana iti
pariyayah | sadsadvayasamvargah phalam tasya samacaturasrasya |
sadsadvayasamvargah iti atra istabahuvacanam kartavyam | anyatha
hi yayoh kayoscit sadsayoh samvargah phalam prapnoti | na etat
asti | nahi phalarthi anyaksetram uddisya anyayoh abhyasam karoti | na
hi odanartha pamsun adatte |

uddesakah ā

ekadinavantanam vargah ye tan prthak prthak bruhi |
satapadasya ca vargam satasya tena eva yuktasya || 1 ||

nyasah ā 1, 2, 3, 4, 5, 6, 7, 8, 9; satapadah 25, satam anena yuktam
125 |

yathasankhyena ekadinavantanam phalam ca "sadsadvayasya
samvargah" iti labdhah vargah, nyasah ā 1, 4, 9, 16, 25, 36, 49,
64, 81 |

evam esam laksanani sutrani ā

antypadasya ca vargam krtva dvigunam tat eva ca antypadam |
sesapadah ahanyat utsarya utsarya vargavidhau ||

iti, taih ekadinavantanam rupanam vargasankhya vaktavya |
kutah? ajñatayam vargasankhyayam yatah antypadasya vargasankhya
na sakyate nyastum | asmakam punah sarvam laksanena eva samgrhitam
|

satapadasya vargah 625; satasya tena eva yuktasya 15625 |

bhinnavargah api evam eva | kintu sadsikrtayoh
chedamsarasyoh prthak prthak vargam krtva chedarasivargena
amsarasivargasya bhagalabdham bhinnavargah |

uddesakah ā

sannam sacaturthanam rupasya ca pañcabhagasahitasya |
rupadvitayasya ca me bruhi krtim navamahinasya || 2 ||

nyasah ā 6 1 2 1 1 1 4 5 9

karanam ā "chedagunam samsam" iti 25 4 | etayoh chedamsayoh
rasyoh prthak prthak vargarasi 16, 625. chedarasivargena
amsarasivargam hrtva labdham 39 1 16 | evam sesayoh api
yathasankhyena

1 3

11 46

25 81 || 2 ||

[ghanaparikarma]

ghanaparikarmapradarsanaya aryaparardham aha ã
sadsatrayasamvargah ghanah tatha dvadasasritah syat || 3 ||
[sadsatrayasya samvargah] sadsatrayasamvargah |
sadsatrayasamvargah ghanah bhavati | ghanah vñdam
sadsatrayabhyasah iti paryayah | sa ca dvadasasritah |
dvadasa asrayah yasya sa ayam dvadasasritah, syat bhavet |
"tatha"sabdena samacaturasratam ghanasya pratipadayati | na etat asti |
antarena api "tatha"sabdham asya ghanasya samacaturasrata sakyate eva
pratipattum | kutah ? sadsatrayasamvargah iti anena
samacaturasraksetraphalasya tatksetravahusadsam eva ucchrayam
acaste, yasmāt ksetraphalam ucchrayagunitam ghanaphalam | athava
"vargah samacaturasrah" iti atra adhikrtam samacaturasragrahanam
anuvartate, asrayah yasya mṛda anyena va pradarsayitavyah |

uddesakah ã

ekadinavantanam rupanam me ghanam prthak bruhi |
astastakavargaghanam satapadakrteḥ krteḥ ca api || 3 ||

nyasah ã 1, 2, 3, 4, 5, 6, 7, 8, 9; astastakavargah 4096;
satapadakrteḥ krteḥ 390625 |

ekadinavantanam "sadsatrayasamvargah ghanah" iti
yathasankhyena labdhah ghanah 1, 8, 27, 64, 125, 216, 343, 512, 729 |

atra api yesam "antypadasya ghanam syat" ityadi laksanasutram,
tesam ekadinam ghanasankhya vaktavya | kutah ? anirjñatayam
ghanasankhyayam yataḥ hi antypadasya ghanasankhya nyastum na sakyate
| astastakavargasya [ghanah] 68719476736, satapadasya krteḥ
krteḥ api 59604644775390625 |

bhinnaghanah api evam eva | uddesakah ã

satpañcadasastanam tavat bhagaih vihinaganitanam |
ghanasankhyam vada visadam yadi ghanaganite mativisada || 4 ||

nyasah ã 5 4 9 7 5 4 9 7 6 5 10 8

labdhah yathasankhyena ghanah ã

198 110 970 488 107 74 299 191 216 125 1000 512

[vargamulam]

vargamulanayanaya aha ã

bhagam haret avargat nityam dvigunena vargamulena |
vargat varge suddhe labdham sthanantare mulam || 4 ||

bhagah hrteḥ bhajanam apavartanam iti paryayah | tam bhagam, haret
grhniyat | kasmāt sthanat prabhṛti iti aha ã avargat, na vargah
avargah, tasmāt avargat | atra ganite visamam sthanam vargah | tasya
eva nañā visamatve pratisiddhe avargah iti samam sthanam, yataḥ hi
visamam samam ca sthanam | kena bhagam haret iti aha ã nityam dvigunena

vargamulena | dvau gunah yasya tat dvigunam | kim tat ? vargamulam |
tena dvigunena vargamulena | katham punar tat vargamulam labhyate iti aha
ã vargat varge suddhe labdham sthanantare mulam | vargat
visamasthanat, suddhe varge vargaganite iti arthah, yat atra labdham
tat sthanantare mulasamjñam bhavati | sthanat anyasthanam
sthanantaram, tasmin sthanantare tasya labdhasya mulasamjñā | yatra
punah sthanantaram eva na vidyate, tatra tasya tatra eva mulasamjñā |
kutah ? sthanantarasya asambhavat | etat eva sutram punar punar avartaye
yavat parisamaptam ganitakarma iti |

uddesakah ã

ekadinam mulam varganam purvadrstasankhyanam |
icchami sakhe jñatum sarayamarasavargaraseh ca || 1 ||

nyasah ã 1, 4, 9, 16, 25, 36, 49, 64, 81, 625 |

prthak prthak yathasankhyena vargamulani labdhani ã 1, 2, 3, 4, 5,
6, 7, 8, 9, 25 |

bhinnamulanayane uddesakah ã

sannam sacaturthanam trayodasanam [sa]caturnavamsanam |
viganayya vargamule vada bhasankhyanusarena || 2 ||

nyasah ã 6 13 1 4 4 9

karanam ã chedoparirasyoh abhyasam krtva amsam praksipet |
jatam 25 | 121 4 | 9 |

etayoh amsacchedarasyoh prthak prthak mule 5 | 11 2 | 3 |
chedarasimulena amsarasimulasya bhagalabdhham bhinnavargamulam 2 1 2
, trayodasanam sacaturnavamsanam ca bhinnavargamulam
3
2
3 || 4 ||

[ghanamulam]

ghanamulanayanaya aha ã

aghanat bhajet dvitiyat
trigunena ghanasya mulavargena |
vargah tripurvagunitah
sodhyah prathamat ghanah ca ghanat || 5 ||

na ghanah aghanah, tasmāt aghanat | [bhajet] bhagam haret, bhagam
grhniyat iti arthah | aghanasthanasya anekatvat aha ã dvitiyat |
atra ganite ghanah ekah, dvau aghanau | kutah etat ghanah ekah dvau
aghanau iti ucyate ã "vargah tripurvagunitah sodhyah prathamat
aghanat" iti prathamaghanasiddhih, "aghanat bhajet dvitiyat" iti
dvitiyaghanasiddhih | ghanah punar ekah eva, dvitiyasya asravanat
| aghanat dvitiyat prabhrti kena bhagam haret iti aha ã trigunena

ghanasya mulavargena | trayah gunah asya trigunah | kah ?
ghanasya mulavargah | tena trigunena ghanasya mulavargena | vargah
tripurvagunitah sodhyah prathamat | vargah tribhah purvena ca
rasina gunitah tripurvagunitah | kasya vargah ? labdhasya iti
vakyasesah | sodhyah | sodhayitavyah | prathamat aghanat iti
sambandhaniyam | ghanah ca ghanat | ghanah ca sodhayitavyah | kutah
? ghanat | ghanasthanat | tatah ghanamulam bhavati iti adhyaharyam |
atra idam eva ghanarasim drstva ghanah ekah dvau aghanau iti
viganayya yatra ghanah tasmad ghanamulam purvam eva kuryat, ghanah ca
ghanat sodhyah iti anena | tatah sarvam idam aryasutram upasthitam
bhavati, "aghanat bhajet dvitiyat" ityadi |

uddesakah ā

ekadinam mulam ghanarasinam prthak tu me bruhi |
vasvasvimunindunam ghanamulam ganyatam asu || 1 ||

nyasah ā 1, 8, 27, 64, 125, 216, 343, 512, 729, 9728. labdham ghanamulam
yathasankhyena 1, 2, 3, 4, 5, 6, 7, 8, 9, 12.

uddesakah ā

krtayamavasurandhrarasabdhiruparandhrasvinagasankhyasya |
mulam ghanasya samyak vada bhatastranusarena || 2 ||

nyasah ā 8291469824 | labdham ghanamulam 2024 |

evam eva bhinnaghanamulanayane api uddesakah ā

mulam trayodasanam pañcaghanamsaih trisunyarupakhyaih |
adhikanam bhinnakhyam viganyatam sankhyaya samyak || 3 ||

nyasah ā 13 103 125 | labdham ghanamulam

2

2

5 || 5 ||

[tribhujaksetraphalam]

atha tribhujaksetraphalanayanartham aha ā

tribhujasya phalasariram samadalakotibhujardhasamvargah |

tisrah bhujah yasya ksetrasya tat idam ksetram tribhujam | bhujah
bahuh parsvam iti paryayah | tatra trini ksetrani
sama-dvisama-visamani | "tribhujasya" iti
tribhujaksetrajatimangikrtya ekavacananirdesah | tasya tribhujasya |
phalasariram | phalasya sariram phalasariram, phalapramanam iti
arthah | samadalakotibhujardhasamvargah | samadalakoti,
avalambakah | atra kecit ā same dale yasyah sa iyam samadala, samadala
ca asau koti ca samadalakoti iti varnayanti | tesam
sama-dvisamatryasraksetrayoh eva phalasiddhih, na
visamatryasraksetrasya | asmakam punar samadalakoti iti anena

avalambakavyutpattya bruvatam trayanam api phalanayanam siddham |
athava ye vyutpattim kurvanti tesam api trayanam
tryasraksetranam phalanayanam siddham eva | kutah ? "rudhesu
kriya vyutpattikarmartha na arthakriya" iti | bhujayah arddham
bhujardham | atha atra bhujasabdena bhujah bahu parsvam iti
samanyena trayanam parsvanam pratipattau prasaktayam visista
eva bhujah parigrhyate, bhujasamjñita | "samanyacodanah ca
visese avatisthante" iti | atra ganite bhujasabdah aunadikah
pratipattavyah, anyatha hi "bhujanyubjau panyupatapayoh"
[astadhyayi, 7.3.61] iti bhujasabdasya panavarthe nipatitattvat
ksetraparsve na labhyate | tasyah bhujayah arddham bhujardham |
samadalakotyah bhujardhasya ca samvargah
samadalakotibhujardhasamvargah, tribhujasyah phalasariram bhavati |
uddesakah ā

saptastanavabhujanam ksetranam yat phalam samanam tu |
pañcasravanasya sakhe sadbhusankhyadvitulyasya || 1 ||

nyasah ā

parilekhah 4

etani trini samani | dvisamasya api nyasah ā

parilekhah 5

karanam ā "samatryasriksetre sama eva avalambakasthitih" iti
bhumyardham abadha 3 1 2 | "yah ca eva bhujavargah kotivargah ca
karnavargah sah" [ganitāī, 17] iti bhujakotyoh vargah
karnavargah | tena, bhujavarge karnavargat suddhe sesam
samadalakotivargah 36 3 4, samadalakoti karanyah 36 3 4 iti |
bhujardham api karanyah 12 1 4 | tena, karanyoh samvargah asti iti
labdham ksetraphalam "samadalakotibhujardhasamvargah" iti
karanyah 450 3 16 | sesayoh api samayoh evam eva yathasankhyena
phalam [karanyah 768], karanyah 1230 3 16 |

dvisamatryasriksetrasya api "sama eva avalambakasthitih" iti abadha 3,
samadalakoti purvakaranena eva 4, phalam api tena eva karanena 12 |

uddesakah ā

karnau dvau dasa nirdistau dhatri [ca] tasya sodasa prokta |
dvisamasya tasya vacyam phalasanghyanam prayatnena || 2 ||

nyasah ā

parilekhah 6

labdham purvakaranena phalam 48 |

visamatribhujaksetresu uddesakah ā

karnah trayodasa syat pañcadasanyah mahi dvisapta eva |

visamatribhujasya sakhe phalasankhya ka bhavet asya || 3 ||

nyasah ā

parilekhah 7

karanam ā bhujayoh vargavisesah tayoh va
samasavisesabhyasah tribhujaksetre
abadhantarasamasavisesabhyasah bhavati | bhumya
abadhantarasamasapramanaya vibhajya labdham bhuma eva samkramanam
| "antarayuktam hinam dalitam" iti [ganitaī, 24] | anena kramena
abadhantarapramane labhyete | tabhyam abadhantarapramanabhyam
visamatribhujasya samadalakotyanyanam | tat yatha ā bhujayoh
vargarasi 169, 225 | etayoh visesah 56 | bhujayoh ekibhavah 28,
tayoh visesah 2 | tayoh abhyasah iti [bhujayoh vargavisesah]
abadhantarasamasapramanaya bhumya 14, anaya hrte labdham 4, anena
bhuvā saha samkramanam "antarayuktam hinam" iti 18, 10 | dalam iti
yathakramena abadhantare 1, 5 | etabhyam tribhujaksetrasya
avalambakanayanam ā pañcadasakena karnena navapramanena ca
abadhantarena labdha samadalakoti 12; trayodasapramanena karnena
pañcapramanena ca abadhantarena labdha sa eva samadalakoti 12 |
phalam "samadalakotibhujardhasamvargah" iti bhujā bhumiḥ, tasyah
ardham 7, samadalakotibhujardhasamvargah iti phalam agatam 84 |

uddesakah ā

pañcasat sa eka bhū trimsat saptadhika bhavet karnah |
vimsatih anyah proktah visamatribhujasya kim phalam vacyam || 4 ||

nyasah ā

parilekhah 8

labdham purvakaranena ca abadhantare 16, 35, samadalakoti 12, phalam
206 |

[sadasrighanaphalam]

ghanaphalanayanartham asya eva tribhujaksetrasya aryapascardham aha ā
urdhvabhujatatsamvargardham sa ghanah sadasriḥ iti || 6 ||
urdhvabhujā ksetramadhyah ucchrayah, tat iti ksetraphalam,
urdhvabhujayah tasya ca samvargah urdhvabhujatatsamvargah, tasya
ardham urdhvabhujatatsamvargardham | sa ghanah ghanaphalam iti yavat,
sa ca sadasriḥ | sadasrayah yasya saḥ sadasriḥ ghanah
| atha nirjñate urdhvabhujapramane ghanaphalam
urdhvabhujatatsamvargardham iti sakyate vaktum, na ca anirjñate |
satyam eva etat | kintu atra nirjñatam eva urdhvabhujapramanam | kutah
? sastre tadanayanopayapradarsanat | tat yatha ā urdhvabhujā hi nama
ksetramadhyah ucchrayah iti pratyaksam | sa ca tiryagavasthitasya
srngataksetrabahoh karnavadavasthitasya kotih,
bhujakarnamulaksetrakendrantaralam | tadanayane trairasikam ā yadi
tribhujaksetraavalambakena tribhujaksetrabahuh labhyate tada tasya eva

tribhujaksetrabahudalasanakhyakasya avalambakasya kiyā bahuh iti |
etat karnabhujakotitraitsikavidhanam pradesantaraprasiddham eva iti
na atra abhihitam | sa ca pradesah "yah ca eva bhujavargah
kotivargah ca karnavargah sah" [ganitā, 17] iti,
"traitsikaphalarasim tam atha iccharasina hatam" [ganitā, 26] iti
ca |

uddesakah ā

srngatakaghanaganitam dvadasaganitasritasya yat ca asya |
urdhvabhujaparimanam sphutataram acakṣva me sīghram || 1 ||

nyasah ā

parilekhah 9

karanam ā yadi astottarasatakaranikena [avalambakena]
catuscatvarimsaduttarasatakaranikah karnah labhyate, tada
sattrimśatkarānikena avalambakena kiyā karnah iti |
traitsikopapattipradarsanartham ksetranayasah ā

parilekhah 10

traitsikanyasah ca 108, 144, 36 | [etah karanyah]

labdhah antahkarnah [karanyah] 48 | ayam eva karnah urdhvam
avasthitatribhujā[ksetrasya bhujā] | karnakrteḥ
bhujavargavisesah urdhvabhujavargah | sa ca 16 | tatra urdhvabhujā
sutrakāih salakadibhiḥ va pradarsayitavya | ksetraphalam
[karanyah] 3888. etasam ksetraphalakaraninam
urdhvabhujakaraninam ca samvargardham ghanah bhavati | ardhham iti
atra karānitvat dvayoh karānibhiḥ caturbhiḥ bhagah hriyate |
labdham ghanaphalam karanyah 93312 |

uddesakah ā

astadāsa karnanam sankhya srngatakasya nirdista |
urdhvabhujaganitagram jijñāsuḥ aham sakhe tasya || 2 ||

nyasah ā

parilekhah 11

urdhvabhujā purvakaranena eva karanyah 216 | phalam api purvavat eva
labdham karanyah 1062882 || 6 ||

[vrttaksetraphalam]

atha vrttaksetraphalanayanartham aha ā

samaparinahasya ardhham viskambhardhahatam eva vrttaphalam |

parinahah paridhiḥ | samah ca asau parinahah ca
samaparinahah, tasya ardhham | anye punar anyatha vighram kurvanti ā
samah parinahah yasya ksetrasya tat samaparinaham, tasya ardhham iti

| tesam ksetraphalardhasya grahanam prapnoti, anya-padarthena
samaparinahasabdena ksetrabhidhanat | viskambhah vyasah, tasya
ardham viskambhardham, tena hatam viskambhardhahatam,
viskambhardhagunitam iti yavat | evakarakaranam aryapuranartham
pratipattavyam | athava evakarakaranena upayaniyamah kriyate |
samaparinahasya ardhham viskambhardhahatam eva vrttaphalam, na anyat
upayantaram iti | na, etat asti, upayantarasarvanat anyatra
"vyasardhakrtih trisanguna ganitam" iti | na etat upayantaram
suksmam, kintu vyavaharikam iti | tasmad ekam eva upayantaram,
suksmaganitanayanasya na anyat iti |

uddesakah ā

astadvadasasatkah viskambhah tattvatah maya
drstah |
tesam samavrttanam paridhiphalam me prthak bruhi || 1 ||

nyasah ā 8, 12, 6

parilekhah 12

etesam trairasikena
vaksyamanaviskambhaparidhipramanaphalabhyam [ganitāī, 10]
labdhah paridhayah yathakramena ā 25 37 18 83 437 531 625 625 625
phalanayane karanam ā samaparinahasya ardhham iti viskambhardham
jatam 4 | anena eva tatsamaparinahasya ardhham 12 354 625 gunitam
vrttaphalam jatam 50 166 625 anena eva karanena sesayoh paridhyoh
yathasankhyena phale ā 113 28 61 343 625 1250

[golaghanaphalam] ghanaphalapradasanartham aha ā
tat nijamulena hatam ghanagolaphalam niravasesam || 7 ||
tat iti anena purvardhaganitanispannam vrttaksetrasya tatphalam
parigrhyate | nijamulam atmanah mulam | yat ksetraphalam tat
svakiyena mulena gunitam iti yavat | athava tat ksetraphalam, nijam
avitatham amnayaviruddham iti arthah, mulena hatam, anyasya asrutatvat
svena mulena tat ksetraphalam gunitam | nijamulena hatam nijamulahatam
iti vighrahah | tat punar ksetraphalam mulakriyamanam karantvam
pratipadyate, yasmat karanimam mula[m apeksitam] | tatah punar api
karanimam akaranimibhih samvargah na asti iti ksetraphalam
karanyate | evam ayam arthah arthat avasiyate ksetraphalavargah
ksetraphalena gunitah iti | ghanah ca asau golah ca ghanagolah,
golah vrttam, ghanagolasya phalam ghanagolaphalam | niravasesam | na
kiñcit anena karmana sisyate | yena anyena karmana ghanagolaphalam
anayanti na tena ghanagolaphalam niravasesam bhavati, vyavaharikatvat
tasya karmanah ā vyasardhaghanam bhivva navagunitam ayogudasya
ghanaganitam | iti |

uddesakah ā

dvau pañca tatha panktih vyasah jñeyah kramena vrttanam |
ghanagolaphalani esam jijñāsuḥ aham samasena || 1 ||

nyasah ā

parilekhah 13

esam paridhayah trairasikena eva labdhah yathasankhyena ā 6 15 31
177 177 52 625 250 125

karanam ā purvabhihitaganitakarmana [dvi]viskambhaksetrasya yat
phalam ayatam 3 177 1250 tasya mulam etat eva karanigatam
asuddhakrtitvat pratipattavyam | tat ca savarnitam jatam 3927 1250. etat
ksetraphalavargena gunitam jatam ghanaphalam karanyah 31,
karanibhagah ca 12683983 1953125000 |

evam sesayoh api yathasankhyena ghanaphalakaranyah
karanibhagah ca ā 7569484476 7558983 58983 8000000 125000

[samalambacaturbhujaphalam]

dvi[sama-visama]caturasradinam antahkarnayoh ca atra
sampatapramanaphalaparijñanaya aryam aha ā

ayamagune parsve tadyogahrte svapatelekhe te |
vistarayogardhagune jñeyam ksetraphalam ayame || 8 ||

ayamah vistarah dairghyam iti paryayah | ayamah gunah
yayoh te ayamagune | ke te ? parsve | bhuh ekam parsvam mukham
itaram | ayamagune bhuvadane iti arthah | tayoh yogah tadyogah |
kayoh ? parsvayoh | tadyogahrte | ke ? ayamaghne parsve | svasya
patah svapatah, svapatayoh lekhe svapatalekhe | dve api prthak
prthak labdhe iti vakyasesah | svapatalekha nama antahkarnayoh
sampatasya bhumukhamadhyasya ca antaram | vistarah ksetrasya
prthutvam | yadi evam vistarah iti prapnoti "prathane vakyasabde"
[astadhyayi, 3.3.33] iti ghañi krte | ne esah dosah | ayam
avastre starasabdah, tena visabdena samasantah asau "vividhastarah
vistarah" iti | vistarayoh yogah vistarayogah, bhuvadanyogah iti
arthah | vistarayogasya ardhah vistarayogardham, vistarayogardham gunah
yasya sa vistarayogardhagunah | kah ? ayamah | tasmin
vistarayogardhagune ayame ksetraphalam jñeyam |
vistarayogardhagunah ayamah ksetraphalam iti yavat | samyak
anadistena alikhite ksetre svapatalekhapramanam
trairasikaganitena pratipadayitavyam | tatha trairasikena eva
ubhayaparsve karnavalambakasampatanayanam | purvasutrena atra
dvisamavisamatryasraksetraphalam darsayitavyam |
vaksyamanasutrena antarayataturasraksetraphalanayanam anena va
anyesu api ksetresu yani tesam antarvartini ksetrani tesam
karnavalambakadisadhanam tat upadistalaksanena eva | na ca
tesam anyatra avasthanamatrat eva anyat karanam syat |

uddesakah ā

bhumih caturdasa syat vadanam catvari ca eva rupani |
karnau trayodasagrau sampatagram phalam ca vada || 1 ||

nyasah ā

parilekhah 14

karanam ā mukhabhumivisesardham bhuja [5] | taya bhujaya
prthaguktaganitena eva avalambakasiddhih, sa ca 12 | ayam eva
avalambakah ayamah | prthak prthak parsve anena gunita jate 48,
168. parsvayoh yogah 18. anena bhagalabdhe svapatalekha

29 21 33 vistarayogardhah 1. anena ayamah gunitah ksetraphalam 108
|

uddesakah ā

vimsatih ekabhyadhika panktih nava ca eva kirtita sankhya |
dhatrikarnamukhanam ganitam sampatalekham acaksva || 2 ||

nyasah ā

parilekhah 15

svapatalekhe purvakaranena 2 5 2 3 5 5 | ksetraphalam 120 |

uddesakah ā

trimsat tryadhika bhumiḥ saptadasa anyani kirtitani atra |
ganitam tatra kiyat syat svapatalekhe ca ke syatam || 3 ||

nyasah ā

parilekhah 16

asya trisamacaturasrasya ksetrasya labdhe svapatalekhe 5 9 1 9 10 10 |
ksetraphalam 375 |

visamacaturasraksetresu phalamatram eva uddisyate, na sampatalekhe,
durjñatavat avalambakasya | anyat api ca ā yat atra visamacaturasram
ksetram na tat anyaganitaksetraih samanam | tat ca ā

pañcakrtimukhena yutam sastih vasudhapramanam akhyatam |
karnau trayodasamitau catustribhiḥ taditau kramasah || 4 ||

asya yau avalambakau tau na sadrsau | atra ca yat upadisyate tasya yau
avalambakau tau tulyasankhyau | tena
ganitasastrantaropadistavisamacaturasraksetrasya asya ca
asadrasyam sati api ca visamatve |

atha yat ganitasastrantaropadistavisamacaturasraksetram yat ca
iha upadisyate tayoh dvayoh api phalanirdesah api anena upadesena
sakyate [kartum] | durjñatavalambakasya kim ? ucyate ā
visamaksetresu phalamatram eva uddisya[te], na sampatalekhe ca iti |
atha cet pariññataḥ avalambakah bhavati tada phalam ca sampatalekhe ca
sakyate vijñatum | katham ? purvopadistaganitakarmana eva |

uddesakah ā

ayamah dvadasa proktah bhumiḥ ekonavimsatiḥ |
mukham pañca samakhyatam karnau tasya atha kirtitau ||

dasa pañca-tribhiḥ ca eva samyuktani prthak prthak |
phalam sampatalekhe ca jñatum icchami tattvataḥ || 5 ||

nyasaḥ ā

parilekhah 17

labdhe sampatalekhe 2 9 1 1 2 2 | ksetraphalam 144 | evam anyesu api
evamvidhesu ksetresu phalanayanam sampatalekhanayanam ca || 8 ||

[ksetraphalam pratyayakaranam ca]

sarvaksetranam phalapratyayakaranartham aha ā

sarvesam ksetranam prasadhya parsve phalam tadabhyasaḥ |

sarvesam ksetranam phalam nirdestavyam | katham ? prasadhya
parsve | "pra"-sabdah prakrstavaci, prakarsena parsve
sadhayitva iti | kah ca tayoh prasadyamanayoh parsvayoh
prakarsah ? ucyate ā parsvata | kah punar arthah
parsvatasabdasya iti | ucyate ā yadi sarvaksetram prasadyamanam,
[tada "parsvata"-sabdasya arthah] parsve eva bhavati,
ayatacaturasram eva iti yavat | phalam tadabhyasaḥ | tesam
sarvaksetranam pratyakalitaparsvayatacaturasranam phalam tayoh
parsvayoh abhyasaḥ, vistarayamabhyasaḥ iti yavat | "abhyasaḥ
gunana samvargah" iti paryayah |

atha sarvasabdasya niravasesavacitvat niravasesani eva
ksetrani aksipyante, tasmāt sarvaksetranam phalasya anena eva
sutrena siddhatvat purvabhīhitasutrābhīdhanam anarthakam | na
anarthakam | pratyayakaranam phalam ca anena ucyate | abhīhitanam
ksetranam phalasya pratyayakaranam, yasmāt ganitavidah
maskari-purana-putanadayah sarvesam ksetranam phalam
ayatacaturasraksetre pratyayayanti | uktam ca ā

karanaih uktaih nityam phalam anugamya ayate tu vijñeyam |
pratyayakaranam ksetre vyaktam phalam ayate yasmāt ||

anabhīhitanam ksetranam phalan ayanam
abhistaksetrayatacaturasrikaranena eva |

atha katham ekena eva yatnena phalanayanam pratyayakaranam ca prasadyate ?
atha idam pratyayakaranartham prakrtam, sa katham phalanayanaya bhavati
? atha phalanayanartham, katham pratyayakaranaya ? nea esah dosah
| anyartham prakrtam anyartham sadhakam drstam | tat yatha ā
"salyartham kulyah praniyante | tabhyah ca paniyam piyate,
upasprsyate ca |" [astadhyayi, 1.1.22, patañjalabhasyam] evam
iḥa api | tat yatha ā

ayatacaturasraksetraphalanayana uddesakah ā

astau pañca ca panktivistarah dairghyam api amisam yat |
astih dvadasa manavah ganitam kiyat ayatanam tu || 1 ||

nyasah ã

parilekhah 18

astau ekam parsvam ; sodasa anyat | tayoh parsvayoh
abhyasah, phalam agatam 128 | sesayoh api evam eva 60, 140 |

purvasutranispannaksetraphalanam pratyayakaranam pradarsyate | tat
yatha ã

tricatorbhujavrttanam drstani phalani yani ganitena |
tesam pratyayakaranam kathaya katham bhavati sarvesam || 2 ||

asya samatryasriksetrasya purvadrstasya eva katham
phalapratyayakaranam [iti] nyasah ã

parilekhah 19

etat eva nyastam ayatacaturasraksetram jatam ã

parilekhah 20

[tribhujasya avalambakah ayamah] karanyah 36 3 4 [bhumyardham
vistarah karanyah 12 1 4] phalam parsvayoh abhyasah iti
karanyah 450 3 16 purvalikhita [eva] |

evam eva [dvi]samesu, visamesu ca | visamakhyasya nyasah ã

parilekhah 21

asya api avalambakah ayamah 12, bhumyardham vistarah 7 |

parilekhah 22

asya api purvavat eva vistarayam ayoh samvargah phalam 84 |

athava ayatacaturasraksetrayoh ardhaksetraphalasyogah asya
phalam | tayoh dvayoh pañcavistarasya dvadasayam asya ekasya,
dvtiyasya api navavistarasya dvadasayam asya
ardhaksetraphalasyogah asya phalam | tayoh dvayoh pañcavistarasya
dvadasayam asya ekasya dvtiyasya api navavistarasya dvadasayam asya
nyasah ã

parilekhah 23

dvadasapañcakasya phalam vistarayamabhyasakramena 60, asya ardham eva
asmin visamatryasriksetre iti 30, nava[vistara]dvadasayam asya phalam
108, asya api ardham eva asmin anupravistam iti 54 ; etayoh
ardhaphalayoh yogah sa eva caturasitih 84 |

evam dvisamatrisamavisamacaturasresu api phalam pratyayaniyam |
vrttaksetre viskambhardham vistarah, paridhyardham ayamah, tat
eva ayatacaturasraksetram | anaya disa prakirnaksetre phalam

svadhiya abhyuhyam | tat yatha ā

mukham ekadasa drstam pratimukham api ucyate tatha ca nava |
ayamah vimsatikah phalam asya kiyat bhavet ganaka || 3 ||

nyasah ā

parilekhah 24

karanam ā "prasadhya parsve phalam tadabhyasah" iti visamayoh
parsvayoh yogah 20, asya ardhham 10. [ayamah 20]. ete
dasakavimsatike parsve | etayoh abhyasah ksetraphalam [200] |

uddesakah ā

astastau panavamukhe vyasah dvau sodasa ucyate dairghyam |
kiyat asya phalam vacyam panavakrtisamsthitasya asya || 4 ||

nyasah ā

parilekhah 25

karanam ā mukhayoh samasah 16, ardhham 8. etat vistarena 2 yuktam 10.
asya ardhham 5. evam "prasadhya parsve phalam tadabhyasah" iti agatam
phalam 80 |

uddesakah ā

vistarah pañca uktah navodaram prstham asya pañcadasa |
karidantaksetraphalam kiyatpramanam vinirdesyam || 5 ||

nyasah ā

parilekhah 26

karanam ā prsthodarasamasah 24. ardhham 12. etat
vistarardhagunam phalam trimsat 30 |

evam sarvaksetresu parsvadvyaparikalpanaya phalam nirdestavyam |

[vyasardhatulyajya]

samavrttaviskambhardhatulyajyapradarsanartham aha ā
paridheh sadbhagajya viskambhardhena sa tulya || 9 ||
paridhih parinahah vrttam iti paryayah | tasya paridheh
sadbhagasya ya jya sa viskambhardhena tulya | paridheh
sadbhagah rasidvayam | rasidvayaksetravagahini ya jya sa
paridheh sadbhagasya jya | tasyah ardhham raseh ekasya ardhajya
| etat ca sarvam chedyake pratipadaniyam iti | asmin ca
viracitamukhadesasitavartyankurakarkatena alikhite chedyake yat
sadbhagajyayah ardhham tat raseh ardhajya | taya ardhajyaya
nirjñatayah ardhajyakotpattim vaksyati | etam eva sadbhagajyam
pratipadayisata vrtaksetre sat samatryasriksetrani
prasangena pradarsitani | atra viskambhardhabahuni | sat va
dhanuhksetrani viskambhardhajyakani | evam ca sadasriksetram

| prayojanam ca asya sadbhagajyapradarsanasya "samavrttaparidhipadam
chindyat" [ganitai, 11] iti asyam karikayam vaksyati || 9 ||

[vrtte vyasaparidhisambandhah]

trairasikena samavrttanayanartham aha ã

caturadhikam satam astagunam dvasastih tatha sahasranam |
ayutadvayaviskambhasya asannah vrttaparinahah || 10 ||

caturbhih adhikam caturadhikam | kim tat ? satam | astabhih gunitam
astagunam | etat uktam bhavati ã astau satani
dvatrimasaduttarani iti | sahasrani ca dvasastih | etat
ubhayam ekatra 62832 | ayutadvayam ca viskambhah ca
ayutadvayaviskambhah | athava ayutadvayasankhyah viskambhah
ayutadvayapramanah va ayutadvayaviskambhah | tasya
ayutadvayaviskambhasya | sa ca 20000 | asannah vikatah | kasya
asannah ? suksmasya parinahasya | katham vijñayate suksmasya
asannah iti, na punar vyavaharikasya asannah ; yavata
srutaparikalpana suksmavyavaharikayayoh tulya | na esah
dosah, sandehamatram idam | sarvasandehesu vedam avatisthate
"vyakhyanatah visesapratipattih [nahi sandehat alaksanam]" [
astadhyayi, sivasutram 6, patañjalabhasyam] iti | tasmad
suksmasya asannah iti vyakhyasyamah | athava asannasabdena
tatsamipavartina abhidhiyate | tena ca tat eva asannasabdena ucyate |
tarhi kiñcit bhinnam | yadi vyavaharikasannah vyavaharikat api
papiyan paridhih, na kascit papataram prayasam karoti, tena
suksmasannah iti nyayasiddham | atha asannaparidhih kasmad ucyate,
na punar sphutaparidhih eva ucyate ? evam manyante ã sa upayah eva na
asti yena suksmaparidhih aniyate | nanu ca ayam asti ã

vikkhambhavaggadasagunakarani vattassa parirao hodi |

[viskambhavargadasagunakarani vrttasya parinahah bhavati |]

iti | atra api kevalah eva agamah na eva upapattih | rupaviskambhasya
dasakaranyah paridhih iti | atha manyate pratyaksena eva
pramiyamanah rupaviskambhaksetrasya paridhih dasakaranyah iti
| na etat, aparibhasitapramanatvat karaninam | ekatrivistarayam
ayatacaturaraksetrakarnena dasakaranikena eva
tadviskambhaparidhih vestyamanah sa tatpramanah bhavati iti
cet tat api sadhyam eva |

anyat ca ã vrttaksetre catvari dhanuhksetrani, ekam
ayatacaturaraksetram | tesam phalamasena vrttaksetraphalena
bhavitavyam | tani phalani samyojyamanani na vrttaksetraphalatulyani
bhavanti |

tatpratipadanartham uddesakah ã

dasaviskambhaksetre purvaparahage ekarupam avagahya |
jiva sad daksinottarayoh api dve rupe avagahya astau ||

tasam jivanam anayanopayasutram gatha ã

ogahunam vikkhambham egahena samgunam kuryat |
cauguniassa tu mulam jiva savvakhattanam ||

[avagahonam viskambham avagahena sangunam kuryat |
caturgunitasya tu mulam sa jiva sarvaksetranam ||]

dhanuhksetranayasah ca ã

parilekhah 27

dhanuhksetraphalanayane sutram gatha ã

isupayaguna jiva dasikarani bhavet viganiya padam |
dhanupatta ammikhatte edam karanam tu naavvam ||

[isupadaguna jiva dasakaranibhih bhavet vigunya phalam |
dhanuhpatte asmin ksetre etat karanam tu jñatavyam ||]

anaya gathaya purvaparadhanuhksetraphale kaí 90 4, kaí 90 4. ete
ksetraphale karanipraksepavidhanena prakseptavye |
karanipraksetrapasutram gatha ã

auvatti a dassakena i mulasamasassamotthavat |
ovattanayaguniyam karanisamasam tu naavvam ||

[apavartya ca dasakena hi mulasamasah samottham yat |
apavartanankagunitam karanisamasam tu jñatavyam ||]

tathakrtva labdham kaí 90 | daksinottaradhanusoh api tatha eva
phale kaí 160, kaí 160 | [samasah ca kaí] 640 | samastayoh punar
samasah kaí 1210 | madhyasthayatacaturaraksetraphalam karanyah
2304 | dhanuhksetraphalasaraseh asya ca karanisamasakriyaya
samasyamane rasyoh asamksepa |

prsthanayanam api ca dasakaraniparidhiprakriyaparikalpanaya sada
na [bhavati | yatah] prsthanayane sutram aryardham ã

jyapadasarardhayutih svaguna [dasasanguna karanyastah]

[atra uddeśakah ã dvipañcasat viskambhe dvih avagahya |]

"ogahunam vikkhambham" iti anena jya labdha vimsatih [20] | [anaya
jyaya] prsthanayanam ã jyapadah [20 4 =] 5, sarardha [1]
yutih 6, svaguna 36, dasasangunah 360, eta karanyah
prstham | sakalajyavargah catvari satani, prstham
karaninam sastisatrayam iti, katham etat samghatate |
jyayasa jyatah prsthena bhavitavyam | tat etat vicaryamanam
atyantasuksmavadinam jyatah prstham alpiyamanam apatitam
atah asyai avicaritamanoharayai namah astu dasakaranyai |

atha aparah api uddeśakah ã

sadvimsativiskambhaksetre ekam avagahya |

purvakaranena eva jya dasa 10 | purvavat eva prstham asyah
navatih karaninam 90 | jyavargah satam 100 |

evam idam alocyamanam atyantasthulatam apannam iti | tasmad sa upayah
eva na asti iti suktam |

atha etau mahantau rasi kasmad ucyete, na punar apavartitau eva ucyete;
acaryah ca laghavikah, na tasya laghavikasya maharasyabhidhanam
yujyate | idam ekam acaryasya mrsyatam | athava ayutadvayaviskambham
iti alpaih aksaraih ucyate | na tatha apavartitaviskambhabhidhane
alpaksarata | athava manyate ā mahaparidhiviskambhabhidhane
mahaviskambhasu jyasu alparigrahapacayesu na phalavisesah
alpantaravat iti, tatha ca "makhi" adisu kvacit asatah upadanam
krtam, kvacit ca satah parityagah |

parinahah paridhah, vrttam ksetram, vrttasya parinahah
vrttaparinahah, vrttaparidhah iti arthah | anena viskambhe
nirjñate paridhah aniyate, paridhau ca nirjñate viskambhe iti |
katham ? yadi asya viskambhasya ayam paridhah icchaviskambhasya kiyam,
yadi asya paridheh ayam viskambhah icchaparidheh kiyam iti |

uddesakah ā

dvicatuhsaptastanam vyanam yani vrttaganitani |
sukmasannani sakhe viganaya ganitanusarena || 1 ||

ksetrasya nyasah ā

parilekhah 28

labhdani vrttani yathakramena ā

6 12 21 25 177 354 1239 83 625 625 1250 625

paridhau nirjñate viskambhanayane uddesakah ā

navanavayamaramanam astabhih sarayamamsahinanam |
khakharasavrndasya ca me vyasau acaksva viganayya || 2 ||

nyasah ā

3299 8 25 | 21600

labdhau yathakramena vyasau 1050 | 6875 625 1309

[chedyakavidhina jya anayanam]

atha jyanayanartham aha ā

samavrttaparidhipadam chindyat tribhujat caturbhujat ca eva |
samacapajyadhani tu viskambhardhe yatha istani || 11 ||

samavrttam paridhah yasya ksetrasya tatksatram samavrttaparidhah,
tasya padah samavrttaparidhipadah | sati etasmin vyakhyane
ksetraphalasya grahanam prapnoti | acaryaprabhakarena ayam eva
vigraphah pradarsitah | sa guruh iti krtva asmabhih na upalabhyate

| anyat ca ā kashthatulyajyabhidhanam yuktam iti asastrajñāh api
janati iti tena eva kashthatulyajya pratyakhyata | vayam tu brumah
ā asti kashthatulyajya iti | yadi kashthatulyajya na syat tada
samayamavanau vyavasthanam eva ayogudasya na syat | tena anumimahe
kascit pradesah sah asti iti yena asau ayogudah samayamavanau
avatisthate | sa ca pradesah paridheh sannavatyamsah |
kashthatulyajya anyaih api acaryaih abhyavagata ā

tatparidheh satabhagam sprsati dharam golakasarirat |

iti | samavrttah ayam paridhih samavrttaparidhih,
samavrttaparidheh padah samavrttaparidhipadah, tam
samavrttaparidhipadam chindyat | jyavibhagena iti vakyasesah |
jyavibhagena samavrttaparidhau khandyamane tribhujat caturbhujat ca
ksetrat samacapajyardhani nispadyante, na visamacapajyardhani |
tani visistani eva parigrhyante,
dvicaturstasodasadvatrimsat iti adini dvgunottarani |
"tu"-sabdāt dvicatussadastadasadvadasacaturdasadini ca |
viskambhardhe tribhujaksetram utpadyate | tasmāt tribhujat caturbhujat
ca ksetrajyardhani nispadyante |

katham punar viskambhardhe tribhujam ca caturbhujaksetram utpadyate iti
ucyate ā yasya vyasardham bhujā karnah va bhavati tadvyasardhe
nispannam | athava viskambhardhe eva jyardhani nispadyante |
viskambhardhavayavatvat na viskambhardham atiricya vartante iti
arthah | athava viskambhardhe sati jyardhani nispadyante | nirjñate
hi viskambhardhe sakyate jya kalpayitum, na anyatha | katham ? yasmāt
uktam "paridheh sadbhagajya viskambhardhena sa tulya" [
ganitāí, 9] iti | yatha istani yatha ipsitani,
samacapajyardhani |

asyam karikayam jyotpattivistumatram eva pratipaditam acaryena, [
karanam] tu na pratipaditam; pradesantaraprasiddhatvat karanasya |
athava jyotpattau yat karanam tat sarvam chedyakavisayam, chedyakam ca
vyakhyānagamyam iti [na] pratipaditam |

atha kim artham samavrttaparidhipadah eva jyavibhagena chidyate, na
punar samavrttaparidhih chedyate ? na esah dosah |
samavrttaparidhipadapramanamātram trayah rasayah | evam catursu
caturbhagesu | yasmāt paridhipadapramanasya tulyatvat sarvesam
paridhipadanam jyardhani tulyani bhavanti iti paridhipadajyardhe iti
eva pratipaditani vyavaharaprasiddhyartham |

uddesakah ā

vasudahanakrtahutasanasankhye viskambhardhe kiyatpramanani
jyardhani |
rasyardhakasthani nispadyante | viskambhardham 3438 |
karanam ā yavat tavat pramanaparicchinnaviskambhardhatulyena
karkatakena mandalam alikhya tat dvadasadha vibhajat | te ca

dvadasabhaḡah rasayah iti parikalpyah | atha dvadasadha
vibhakte mandale purvena rasidvayagravagahinim daksinottaram
jyakaram lekham kuryat | evam pascimabhage api | evam eva
daksinottarabhagayoh api ca purvaparayatam jyam kuryat | punar api
ca purvaparadaksinottaradiksu tatha eva ca
rasicatustayagravagahinyah lekham kuryat | tatha
tryasri[ni] kartavyani |

tatha ca paridhinispannam ksetram karkatakena viracitavartikamukhena
likhyate | evam alikhite ksetre sarvam pradarsayitavyam |

parilekham 29

atra alekhye vyasardhatulya curnam kasthanam [purna]jya |
tadardham dvikasthajya | sa ca 1719 | esa bhujā, vyasardham
karnah iti, bhujakarnavargavisesasya mulam avalambakah | sa eva
curnam kasthanam jya | sa ca 2978 | etam vyasardhat visodhya
sesam dvikasthasarah, saradvikasthajyavargayogamulam
karnah | sa eva dvikastha[purna]jya ca 1780 | ardhham asyah
kasthasya ekasya jya, 890 | esa bhujā, vyasardham karnah |
bhujakarnavargavisesasya mulam avalambakah | sa ca pañcanam
kasthanam jya | sa ca 3321, visamatvat atah jya na utpadyante |
evam tribhujat pañca jyardhani vyakhyatani |

antahsamacaturaraksetre vyasardhatulya bahavah | tasya karnah
vyasardhayoh vargayogamulam | tat ca 4862 | asya ardhham trayanam
kasthanam jya | sa ca 2431 | evam eka jya caturbhujat nispanna,
visamatvat utpattih na asti |

viskambhardhe sat rasyardhakasthajyardhani pratipaditani |
tasmin eva viskambhardhe rasicaturbhagakasthajya vyakhyasyamah
| tat yatha ā purvat alikhite ksetre vyasardham eva astanam
kasthanam [purna]jya | tadardham curnam kasthanam jya,
sa ca 1719 | iyam bhujā, vyasardham karnah,
bhujakarnavargavisesamulam kotih | sa astanam
kasthanam jya, sa ca 2978 | etam vyasardhat visodhya sesam
catuhkasthajyasarah | saracatuskasthajyavargayogamulam
karnah | sa curnam kasthanam [purna]jya, sa ca 1780 |
taddalam dvikasthajya, [sa] ca 890 | esa bhujā, vyasardham
karnah, bhujakarnavargavisesamulam kotih | sa dasanam
kasthanam jya, sa ca 3321 | etam vyasardhat visodhya sesam
dvikasthasarah | saradvikasthajyavargayogamulam karnah |
sa eva dvikastha[purna]jya, sa ca 898 | ardhham asyah
kasthasya ekasya jya, sa ca 449 | esa bhujā, vyasardham
karnah, bhujakarnavargavisesasya mulam kotih | sa
ekadasanam kasthanam jya, sa ca 3409 | visamatvat atah jya
na utpadyate |

atha dvikasthajyam vyasardhat visodhya sesam
dasakasthasarah | saradasakasthajyavargayogamulam karnah

| sa [eva] kasthanam dasanam [purna] jya, sa ca 4186 | ardhham
asyah pañcanam kasthanam jya, sa ca 2093 | esa bhujā,
vyasardham karnah, bhujakarnavargavisesasya mulam kotih | sa
saptanam kasthanam jya, sa ca 2728 | visamatvat atah jya na
utpadyate | evam tribhujat nava jyardhani |

purvavaduktasamacaturaksetrasya vyasardhabahukasya vyasardhayoh
vargayogamulam karnah | sa ca dvadasanam kasthanam
[purna]jya, sa ca 4862 | ardhham asyah sannam kasthanam
jya, sa ca 2431 | etam vyasardhat visodhya sesam
satkasthasarah, sarastkasthajyavargayogamulam
karnah | sa eva sannam kasthanam [purna]jya, sa ca 2630
| ardhham asyah trayanam kasthanam jya, sa ca 1315 | esa
bhujā, vyasardham karnah, bhujakarnavargavisesasya mulam
kotih | sa navanam kasthanam jya | sa ca 3177 | visamatvat
atah jya na utpadyate | evam caturbhujat tisrah jyah |
viskambhardhe dvadasa |

dvadasa rasicaturbhagakasthajyardhani vyakhyatani | tasmin eva
viskambhardhe rasyastabhagajya vaksyamah | tat yatha ã
purvavadalikhite ksetre vyasardham eva sodasanam kasthanam
[purna]jya | tadardham astanam kasthanam jya, sa ca 1719 |
esa bhujā, vyasardham karnah, bhujakarnavargavisesasya mulam
kotih | sa sodasanam kasthanam jya, sa ca 2978 | etam
vyasardhat visodhayet | sesam astakasthasarah |
sarastkasthajyavargayogamulam karnah | sa eva astanam
kasthanam [purna]jya, sa ca 1780 | ardhham asyah curnam
kasthanam jya, sa ca 890 | esa bhujā, vyasardham karnah,
bhujakarnavargavisesasya mulam kotih | sa eva vimsateh
kasthanam jya, sa ca 3321 | etam vyasardhat visodhya sesam
catuhkasthasarah | saracatuskasthajyavargayogamulam
karnah | sa eva curnam kasthanam [purna]jya, sa ca 898 |
ardham asyah kasthayoh jya, sa ca 449 | esa bhujā, vyasardham
karnah, bhujakarnavargavisesasya mulam kotih | sa eva
dvavimsateh kasthanam jya, sa ca 3409 | etam vyasardhat
visodhayet | sesam dvikasthasarah |
saradvikasthajyavargayogamulam karnah | sa eva kasthayoh
[purna]jya, sa ca 450 | ardhham asyah kasthasya jya, sa ca 225 |
esa bhujā, vyasardham karnah, bhujakarnavargavisesasya mulam
kotih | sa eva trayovimsateh kasthanam jya, sa ca 3431 |
visamatvat atah jya na utpadyate |

atha curnam kasthanam jyam vyasardhat visodhayet | sesam
vimsateh kasthanam sarah |
saravimsatikasthajyavargayogamulam karnah | sa vimsateh
kasthanam [purna]jya, sa ca 4186 | ardhham asyah dasanam
kasthanam jya, sa ca 2093 | esa bhujā, vyasardham karnah,
bhujakarnavargavisesasya mulam kotih, sa eva caturdasanam

kasthanam jya, sa ca 2728 | etam vyasardhat visodhayet | sesam dasakasthanam sarah | saradasakasthajyavargayogamulam karnah | sa eva dasanam kasthanam [purna]jya, sa ca 2210 | ardhham asyah pañcanam kasthanam jya, sa ca 1105 | esa bhujā, vyasardham karnah, bhujakarnavargavisesamulam kotih | sa eva ekonavimsateh kasthanam jya, sa ca 3256 | visamatvat atah jya na utpadyate |

atha dvikasthajyam vyasardhat visodhayet | sesam dvavimsateh kasthanam sarah | saradvavimsatikasthajyavargayogamulam karnah | sa eva dvavimsateh kasthanam [purna]jya | sa ca 4534 | ardhham asyah ekadasanam kasthanam jya, sa ca 2267 | esa bhujā, vyasardham karnah, bhujakarnavargavisesasya mulam kotih | sa eva trayodasanam kasthanam jya, sa ca 2585 | visamatvat atah jya na utpadyate |

atha dasanam kasthanam jyam vyasardhat visodhayet | sesam caturdasanam kasthanam sarah | saracaturdasakasthajyavargayogamulam karnah | sa eva caturdasanam kasthanam [purna] jya, sa ca 3040 | ardhham asyah saptanam kasthanam jya, sa ca 1520 | esa bhujā, vyasardham karnah, bhujakarnavargavisesamulam kotih | sa eva saptadasanam kasthanam jya, sa ca 3084 | visamatvat atah jya na utpadyate |

evam tribhujat rasyastabhagakasthajyah vyakhyatah | atha caturbhujat vyakhyasyamah | antahsamacaturaraksetrasya vyasardhatulyah bahavah | tayoh vargayogamulam karnah | sa eva caturvimsateh kasthanam [purna]jya, sa ca 4862 | ardhham asyah dvadasanam kasthanam jya, sa ca 2431 | etam vyasardhat visodhayet | sesam dvadasanam kasthanam sarah | saradvadasakasthajyavargayogamulam karnah | sa eva dvadasanam kasthanam [purna]jya, sa ca 2630 | ardhham asyah sannam kasthanam jya, sa ca 1315 | esa bhujā, vyasardham karnah, bhujakarnavargavisesasya mulam kotih | sa astadasanam kasthanam jya, sa ca 3177 | etam vyasardhat visodhayet | sesam sannam kasthanam sarah | sarasatkasthajyavargayogamulam karnah | sa eva sannam kasthanam [purna]jya, sa ca 1342 | ardhham asyah trayanam kasthanam jya, sa ca 671 | esa bhujā, vyasardham karnah, bhujakarnavargavisesasya mulam kotih, sa eva ekavimsateh kasthanam jya, sa ca 3372 | visamatvat atah jya na utpadyate |

atha sannam kasthanam jyam vyasardhat visodhayet | sesam astadasakasthanam sarah | sarastadasakasthajyavargayogamulam karnah | sa eva astadasanam kasthanam [purna]jya, sa ca 3820 | ardhham asyah navanam kasthanam jya, sa ca 1910 | esa bhujā, vyasardham karnah, bhujakarnavargavisesamulam kotih | sa eva

pañcadasanam kasthanam jya, sa ca 2859 | visamatvat atah jya
na utpadyate |

evam rasyastabhagakasthajyah caturvimsatih | anena eva
vidhanena viskambhardhe yathestani jyardhani nispadayitavyani
iti || 11 ||

[prakarantarena khandajya]

jyavibhagapradarsanartham aha ã

prathamam capajyardhat yaih unam khanditam dvitiyardham |
tatprathamajyardhamsaih taih taih unani sesani || 12 ||

prathamam adyat capajyardhat | yaih unam yavadbhah amsaih
unam apraptasadsam | kim tat ? khanditam dvitiyardham,
khanditam purvavyabhihitacchedyavidhina chinnam
dvitiyacapajyardham | tatprathamajyardhamsaih | tat iti yavadbhah
prathamacapajyardhat dvitiyacapajyardham unam tavantah taih
parigrhyante, jyayah ardham jyardham, prathamam ca tajjyardham ca
prathamajyardham ; athava prathama ca asau jya ca prathamajya,
prathamajya ca asau ardham ca prathamajyardham ; prathamajyardhasya
amsah prathamajyardhamsah ; prathamajyardhamsah ca
prathamajyardhena bhagam hrtva labdha yatha pañcamsah
sadamsah, te ca prathamajyardhamsah ca
tatprathamajyardhamsah taih tatprathamajyardhamsaih | taih
taih amsaih iti vipsagrahanam ca arthavat bhavati | unani
sesani | unani rahitani, sesani tritiyadye jyardhani
bhavanti |

tat yatha ã prathamam capajyardham idam chedyakena nispannam 225 |
dvitiyam capajyardhacchedam 224 | etat prathamacapajyardhat ekena unam |
dvitiyacapajyardhamsam prathamacapajyardham ca ekatra 449 | asya
prathamacapajyardhena bhage [hrte] labdham ardhadhikena dve rupe |
tabhyam purvena ca [ekena unam] prathamacapajyardham
[tritiyajyardham] bhavati | tat ca 222 | trayanam samyogah 671 |
asya prathamacapajyardhena bhagalabdham ardhadhikena trini rupani |
taih purvalabdhaih ca tribhah unam prathamacapajyardham
caturthajyardham bhavati | tat ca 219 | caturtham jyardhanam samyogah
890 | asya prathamajyardhena bhagalabdham catvari rupani ardhadhikena |
taih purvaih ca sadbhah unam prathamam capajyardham
pañcamajyardham bhavati | tat ca 215 | etaih sesani vyakhyatani
iti |

idam ca vyakhyanam acaryaprabhakaranena vyakhyatam | tat ca ayuktam
anarthakam apratyakhyaya vyakhyanam kartum | katham anarthakam ? atra
ganitasastre laghupayapradarsanartham upayantarapradarsanartham va
sutrantarām arabhyate | atra anyataragandhah api na asti | katham ?
purvavyabhihitacchedyavidhina nirjñatabhyam
prathamadvitiyacapajyardhabhyam idam karma kriyate | tasmin

parilekhah 35

sadhya jalena samabhuh | samabhuh jalena sadhyate | tat yatha ā
caksuhsutrasamikrtayamavanau trikasthopari nirvate jalakumbham
nidhaya adhah susiram kuryat, yatha tat udakam ekarupaya dharaya
sravati | tat prasrutam ambhah samantat parivartulam yatra prayati sa
bhuh sama, yatra tat ambhah vrttam bhanktva pratisthate tat
nimnam, yatra na avagahate tat unnatam iti | adhah urdhvam lambakena eva |
adhah upalaksitasya yah urdhvapradesah sah avalambakena eva
sadyate | urdhvapradesasya va yah adhahpradesah asau api
avalambakena eva | avalambakah ca gurudravyaikagrasaktam sutram iti || 13
||

[svavrttaviskambhardham]

svavrttaviskambhardhanayanartham aha ā

sankoh pramanavargam chayavargena samyutam krtva |
yat tasya vargamulam viskambhardham svavrttasya || 14 ||

[sankoh akaraprakaravivecanam]

atra sankoh akarapramanayoh vipravadante samvatsarah | kecil
tavat ahuh ā dvadasangulasankuh mulatribhage caturasrah,
madhyatribhage tryasrih, uparitribhage sulakarah iti |
suksmatvat vigrahasya suksmaya ekaya kotya chayagrasya
sulaksyatvat sesaih ca duhsampadatvat iti tat ca na | sulagrasya
avalambakasya vinyasabhavat rjuta eva duhsampadya | tadabhavat
sarvagunabhavah | gopucchakrtivrttodarah tu
bhrastavalambakatvena eva pratyakhyata |

apare ahuh ā caturasrah caturdisam avalambakasadhanasambhavat
kotidvayena chayagrahanat abhistakotyam diggrahanasiddhih
iti | etat api yujyate, kintu tadsasya samprati silpinah
samacaturasraksetrasampadinah durlabhatvat yadi api svabhyastavidyah
kascit kadacit sambhavet, tatha api pratiksanam suryasya
abhimukhasthapanat punar punar sankoh mukhacalanam kartavyam | tatha
ca atisuksmadrasah tavata abhistacchayatikranta syat iti
dosah, etasmat parityajyah ayam api sankuh | anena eva sarvatra
sankavah prayuktah |

aryabhatiyah svamatam abhininisthapayisavah vyavarnayanti |
tat yatha ā prasastadarumayah hi asusirah
rajigranthavranavarjitah bhramasiddhah
mulamadhyagrantaralatulyavrttah na alpavyasah na alpayamah ca
prasastah | tribhih caturbhih va avalambakaih asya rjusthitih
sadhayitavya | sankoh madhyasutrasya asiddhatvat avalambakasthitih
api duhsampadya iti atah sankumadhyasutrasadhanam pradarsyate | tat
yatha ā sankumucce pradese niscalam nidhaya avalambakena
sankumulamastakayoh madhye vijñaya tadagrasaktam sutram prasarya
ubhayaparsve ca lekhe kuryat | etat ubhayaparsvamadhyalekhe, tatah punar

api karkatakena lohena mulagramadhyasutrabhyam matsyam utpadya
sesamadhya lekhasadhanam | nanu ca atra api dosah asti eva,
sarvadiksu tanmastakasya chayagrasya vipulavrttatvat chayamadyam
durlakshyam | tena ca vina adigrahanabhavah iti | na esah
dosah | sankoh upari kendre viskambhardhadhikanya samavrtta
salaka madhyaprasadhini lohi darvi va kriyate | tada
adigrahanamadyaparijñanam ca bhavisyati iti | athava prajñasya
avalambakasutrena purvavinyastena eva kiñcit utksiptena
madhyaparijñanam | atha angulavibhagat tikskena sastrena manak
sakalitam krtam | anyatha hi pramanagrahanam anarthakam syat |
tasmāt yathestapramanah sankuh dvadasangulah iti
suprasiddham angikrtya ucyate | uddesakesu etat pratipadayisyamah
| yavat yavat ayam prthuh guruh ca bhavati tavat tavat vayuna na
eva calyate, yavat yavat ca dirghah bhavati tavat tavat ca
angulavayavah suksmah suparijñatah bhavanti | tasmāt
prthugurudirghesu adarah karyah iti abhihitah sankoh
akarah |

[sankupramanavivecanam]

idanim pramanam upadeksyamah | kecit ahuh ā ardhahastah
dvadasadha vibhaktasarirah iti | na esah niyamah | kintu
abhistasankhyaprabhaktasarirah
abhistasankhyaprabhaktah iti arthah | yatra pramanagrahanam
krtam, tatra api samangulavibhage kendravibhage ca kausalam
abhyasaniyam |

[sloka-vyakhya]

sankoh pramanavargam, sankoh ittham prapañcatapramanasya
pramanagrahanam aniyatapramanapratipadanartham iti uktam | yadi
sankoh niyatam eva pramanam syat tada sankoh vargam iti iyata
api ucyamane tanniyatapramanah eva pratipattih | pramanasya vargah
pramanavargah, tam pramanavargam | chayavargena, chayayah
vargah chayavargah, tena chayavargena | samyutam krtva,
ekikrtya iti arthah | yat tasya vargamulam, tasya samyuktasya raseh
vargamulam yat, tat svavrttaviskambhardham bhavati | kim tat vrttam
yasya idam viskambhardham iti ucyate ? tat mulatulyena karkatakena
alikhitasya vrttasya tat viskambhardham | yadi evam sarve eva
samkhyavisesah svavrttaviskambhardham bhavati | na esah
dosah | yadi sarvasankhyavisesah svavrttaviskambhardham
bhavati eva, kim nah chinnam ? atra punar
sankupramanacchayavargayogamulam svaviskambhardham visistam
eva parigrhyate, tena anyasya svavrttaviskambhardhasya grahanam na eva
atra prasajyate | prasakte ca dosapariharah va vidhiyate | atra ca
svavrttaviskambhardhagrahanam traikasikaprasiddhyartham ā yadi asya
svavrttaviskambhardhasya ete sankucchaye tada golaviskambhardhasya
ke iti sankucchaye labhyete | tau eva visuvati avalambakaksajye iti
ucyate |

uddesakah ā

pañcanavardhacaturtha chaya drsta ksitau samayam tu |
visuvan madhye sutre sankoh dvadasavibhaktasya || 1 ||

nyasah ā sankuh 12, chaya 5; sankuh 12, chaya 9; sankuh
12, chaya 3 1 2

karanam ā sankucchayayoh vargau 144, 25, ekatra 169 | asya mulam
svavrttaviskambhardham | tat ca idam 13 | etasya ksetrasya nyasah ā
parilekhah 36

svavrttaviskambhardham nama chayagrat arabhya sankumastakaprapī
sutram | tatsutranusarena bhūmau drstim nidhaya
sankumastakasaktam vivasvantam pasyati | aksajya anayane
trairasikasthapana ā 13 | 5 | 3438 | labdham aksajya 1322 | esa
bhūja, vyasardham karnah, bhujakarnavargavisesamulam
avalambakah 3174 | trairasikena api 13 | 12 | 2328 | labdham avalambakah
3174 | apare api atra ksetravisesah | trairasike vacah yuktih ā
yadi asya svavrttaviskambhardhasya chayatulya bhūja sankutulyah
avalambakah tada asya golavyasardhasya kau bhūjau alambau iti | chayaya
ghatikanayane, madhyahne chayaya ca suryanayane
svavrttaviskambhardhasya ayam eva vidhih | kintu chayaya
ghatikanayane sankuna karyam iti sankuh eva aniyate |
samamandalachayaya suryanayane sa eva | madhyahnacchayaya
suryanayane natajyaya prayojanam iti chaya eva aniyate |

sesayoh api svavrttaviskambhardhe 15 | 12 1 2 | trairasikena eva
aksajyavalambakau 2063, 2750; 963, 3300 |

uddesakah ā

pañcadasangulasankoh padena yuta sadangula chaya |
visuvat dinamadhyahne vacya aksajya avalambakau ca atra || 2 ||

nyasah ā sankuh 15, chaya 6 1 4 | agatam
svavrttaviskambhardham 16 1 4 | anena svavrttaviskambhardhena agatau
aksajyau alambakau 1322, 3174 |

uddesakah ā

trimsat pramanasankoh sodasa drsta yada
angulacchaya |
madhyat kiyat gatah arkah vitatamayukhah tatah vacyah || 3 ||

nyasah ā sankuh 30, chaya 16 | agatam svavrttaviskambhardham
34 | labdham tadaksajya 1618 || 14 ||

[pradipacchayakarma]

pradipacchayakarma aha ā

sankugunam sankubhujavivaram sankubhujayoh visesahrtam |

yat labdham ta chaya jñeya sankoh svamulat hi || 15 ||

sankuh gunah yasya tat sankugunam | kim tat iti aha ã
sankubhujavivaram | bhujasabdena pradipocchrayah ucyate,
pradipocchrayasya sankoh ca yat antaram tat sankubhujavivaram,
tat sankugunam | sankubhujayoh visesahrtam sankoh
pradipocchrayasya yah visesah sa sankubhujayoh visesah, tena
hrtam bhaktam | yat labdham sa chaya sankoh tasya eva svamulat
tasya eva sankoh mulat sa chaya labhyate |

uddesakah ã

yastipradipamulat dvasaptatyucchritat asityam ca |
trimsatkadvimsatyam sthitasya sankoh vada cchaye || 1 ||

nyasah ã

parilekhah 37

sankubhujavivaram 80, etat sankugunam 960; bhujā 72, sankuh 12,
etayoh visesah 60, anena hrtam sankugunam sankubhujavivaram,
labdha chaya 16 |

dvitiyoddesakanyasah ã

parilekhah 38

purvakaranena eva labdha chaya 13 5 3 | etat karma traikasikam | katham
? sankutah adhikayah uparibhujayah yadi
sankubhujantaralapanam chaya labhyate tada sankuna ka iti
chaya labhyate |

viparitakarmana uddesakah ã

chaya sodasa drsta dvasaptatyucchritasya dipasya |
mulam kiyata sankoh dvadasakasya tvaya vacyam || 2 ||

nyasah ã

parilekhah 39

karanam ã sankubhujantarena anena 60 chaya labdha, tena
"bhagaharah te bhavanti gunakarah" [ganitaí, 28] iti chaya 16,
gunita jata 960; etat eva "sankugunam sankubhujavivaram" atra api
sankuh gunakarah asit iti "gunakara bhagahara" [ganita í,
28] iti sankuna 12 hrtam sankubhujavivaram labdham | tat ca 80 |

uddesakah ã

yastipradipamulat pañcasadvivarasamsthitah sankuh |
tasya cchaya panktih vacyah tasmin kiyam dipah || 3 ||

nyasah ã

parilekhah 40

karanam ā "sankuguna koti sa chayabhakta bhujā bhavati"
[ganitā, 16] iti vaksyamanakaranena
sankubhujavivarayuktacchaya kotih bhavati iti | sankubhujavivaram
50, chaya 10, ekatra 60, etat sankugunam 720, chayabhaktam
bhujapramanam 72 || 15 ||

[sankucchayadvayena dipocchrayapasaraññanam]

anirjñatadipocchrayavasanyoh sankucchayadvayena anayanam aha ā

chayagunitam chayagravivaram unena bhajitam koti |
sankuguna koti sajchayabhakta bhujā bhavati || 13 ||

chayagunitam chayaya gunitam | kim chayagunitam ?
chayagravivaram, chayagrayoh vivaram chayagravivaram,
chayagrantaralabhumih iti arthah | tat yatha ā
anirjñatocchrayayastipradipat kiyat api apasrtya sankuh
sthapitah | tasya chaya jñayate eva | tacchayagrat pariganite
antare dvtiyasankuh, tacchayagrat purvasankucchayagram iti
antaram chayagravivaram | tadistaya prathamacchayaya
dvtiyacchayaya va gunitam | unena bhajitam, unam chayayoh
visesah, tena unena bhajitam | koti avasanabhumih | tat yadi
prathamacchayaya gunitam tada
prathamacchayagrastipradipantaralam bhavati, dvtiyaya chayaya
yadi tadagrastipradipantaralam | sankuguna koti, sankuh
gunah yasyah sa iyam sankuguna koti | chayabhakta bhujā
bhavati, bhujā yastipradipocchrayah | chayadvayam api
tatkotibhyam prasadyate |

uddesakah ā

sankoh samayoh drste kramasah dasasodasangule chaye |
agrantaram ca drstam trimsat kotibhujē vacye || 1 ||

nyasah ā

parilekhah 41

karanam ā chayagravivaram 30, etat prathamacchayagunitam 300;
chayayoh visesah 6, anena labdham koti 50; iyam eva koti
sankuguna jata 600, chayabhakta bhujā 60 | dvtiyacchayatah
api koti 80, bhujā sa eva 60 |

uddesakah ā

pañca sapta kramat chaye narayoh tulyayoh smrte |
astau agrantaram drstam bhujakoti tada ucyatam || 2 ||

nyasah ā

parilekhah 42

purvat labdha koti 20, bhujā 48 | dvtiyacchayatah api koti 28,
bhujā sa eva 48 |

visuvat ahani gaganatala[madhya]vartini savitari
samadaksinottaradesacchayagrantaralayojanaih chayavisesena
sankuna [ca] kecil vivasvadavanitalantaralayanani anayanti, tat
ayuktam | atra pradipacchayadvayakarmalapavataarah api na upapadyate |
kutah ? yasmataha "bhuravivaram vibhajet" [gola, 39] iti | bhuh
sankuh, raviyojanakarnah sankubhujavivaram,
sakalajagadekapradipah bhagavan bhaskarah svayam eva pradipocchrayah
iti atah vivasvadavanitalantaralayanayanam na ghatate,
"bhuravivaram" iti siddhanam eva yojananam upadesat | atha savita eva
pradipocchrayah iti savitrviskambhapramanam aniyate iti cet, tat
ca na | yasmatah svakakasyakarnabhuvivarayojanah
gaganatalamadhyasinah lokan dyotayan laksyate, tasmatah
pradipocchrayah svayam savita [na] bhavitum arhati | atha vivasvan
pradipocchrayah, savitrdharitrimadhyantaralayanani
asesavanitalamandalavyasapramanasya sankoh vivaram, tatha ca
dvitiyasya tavat sankoh avasthanabhavat ca na yujyate | tasmatah
susthu uktam "pradipacchaya[dvaya]karmalapavataarah api na
upapadyate " iti |

iyam ca dharitri golakara pathyate | tena tatprsthavartinam
asmakam vakratvat paridheh sankucchaya bhujakotikarmaparikalpana
atra [na] pravartate, yatah salilasamikrte pradese sankucchayaya
bhujakotikarnaksetrasamsthanam, na ca etavatyah bhuvah sakyate
samikaranam kartum | atha abhyupagamya idam udahriyate ā visuvati
ujjayinyam dinardhavartini usnadidhitau chaya pañcangula | taya
aksah labdhah bhagah dvavimsatih liptah saptatrimsat |
anena aksena lankojjayinyantaralayanani labdhani
saptambarayamasankhyani 207 | tatah ujjayinya uttarena visuvati eva
madhyahnacchaya sthanesvare saptangula | taya ca aksah labdhah
bhagah trimsat sapatadaha | anena aksena
lankasthanesvarantaralayanani labdhani saradriyamasankhyani 275
| atra etesam yojananam visesah astasastih
sankudvayavivaram, chayayoh antarena dvabhyam yukta
astasastih, chayagravivaram saptatih | atra ganitakarma
"chayagunitam chayagravivaram" iti adikarmana kotiyojanani
labhyante | tair ca dvitiyacchayaya niyamanaih
lankasthanesvarantaralayanaih eva bhavitavyam , yasmatah tasmin kale
vivasvadadhovasthitah desah lanka | yadi vivasvan bhujah yadi va
vivasvatah yah ucchrayah, tasmatah koteh
lankasthanesvarantaralayanasanankhyanatvat ganitakarma api atra
na kramati | atra ca yaya kotyah bhujah sadhyate sa ca tavat na siddha,
taya asiddhaya siddhabhujah sadhyate iti etat ayuktam | anyat ca yat chaya
dvadasangulasya sankoh pratyaksam asmabhih upalabdha taya
angulapramanaya yojanaih karma kriyate iti etat ca na upapadyate |
atha dvadasayojanapramanasya sankoh pañcayojana saptayojana ca
chaya iti etat api tavatah sankoh lambakena rjusthitih asakya
jñatum, na ca utksepanasthapane | chaya ca samayamavanau sadhyate

tavatsu yojanesu nimnonnatarit iti adivisamata tena tadavagatih na
sakyate | tasmāt yatha agamasiddhau eva sahasramariceh
ucchrayaviskambhau | tatah na atra iyam ganitaprakriyaprakaravagura
prasaraniya iti || 16 ||

[bhujakotikarnanam sambandhah]

karnanayanartham aha ā

yah ca eva bhujavargah kotivargah ca karnavargah sah |

yah ca bhujavargah yah ca kotivargah etau vargau ekatra
karnavargah bhavati |

uddesakah ā

tricuskabhujakotyoh sadastasankhyanayoh tayoh ca api |
dvadasakanavakayoh ca kramena karnah vinirdesyah || 1 ||

nyasah ā

parilekhah 43

karanam ā ete bhujakoti 3, 4; etayoh vargau 9, 16; ekatra
karnavargah 25, asya mulam karnah 5 | evam adhyardhasriksetre
ayatacaturaraksetre va karnah yojyah | evam
parisistaksetrayoh karnau labdhau 10, 15 ||

[vrtte ardhajyasarayoh sambandhah]

vrttaksetravagahajyanayanaaya aryapascardham aha ā

vrtte sarasamvargah ardhajyavargah sa khalu dhanusoh || 17 ||

vrtte ksetre, sarayoh samvargah sarasamvargah, sah
ardhajyavargah bhavati | sa khalu dhanusoh, tayoh eva dhanusoh
ardhajyavargah bhavati |

uddesakah ā

ksetre dasaviskambhe dvikastasankhyau sarau maya drstau |
tatra eva navaikamitau ardhajye tu kramat vacye || 1 ||

nyasah ā

parilekhah 44

karanam ā etau dvau sarau 2, 8 | etayoh samvargah ardhajyavargah
16 | asya mulam 4, iyam ardhajya | dvitiyoddesake api labdha ardhajya 3 |

atra eva syenamuskoddesan vyavarnayanti | tat yatha ā ardhajya
bhujā, ardhajyamandalakendrantaralam kotih, tadvargayogamulam
karnah mandalavyasardham | tat tu pradarsyate ā

nyasah ā

parilekhah 45

iyam ardhajya syenasthanocchrayah, ardhajyaparidhyantaralam

musikapracarabhumih, viskambhardham karnah syenamargah |
mandalakendram musikavadhapradesah | tatra syenasthanocchrayah
ardhajya iti tadvargah, musikapracarabhumih sarah iti tena
vibhajyate, labdham dvitiyah sarah | tena "antarayuktam hinam" [sloī
24] iti etam krtva labdham musikavasaprapyabhumih
syena[gati]karnapramanam ca | yah eva dvitiyah mahasarah sa eva
vamsabhangapade ardhatryasriksetrakarena vyavasthitah | tat ca
pradarsitam | evam ganitam bijamatram upadistam |

[uddesakah] ā

dvadasahastocchritasya prakarasya upari syenah vyavasthitah | tena
prakaramulat caturvimsatihastaniskrantah musikah
[drstah, tena] musikena ca syenah | tatra musikah tadbhayat
prakaravasthitam atmiyalayam drutataram prasthitah antare syenena
karnagatina vyapaditah | tatra icchamah jñatum [ki]yat antaram
akhuna praptam, kiyat va syenena ayatam iti || 2 ||

nyasah ā

parilekhah 46

karanam ā syenocchrayavargah 144, etat anena
musikapracarabhumipramanena 24 vibhajya labdham 6, anena antarena
musikapracarabhumih yukta 30, apacita 18 | etayoh ardham
syenagatih musikavasantaralam ca yathakramena 15, 9.

uddesakah ā

astadasakocchraye syenah stambhe sthitah hi akhuh |
avasat niskrantah tu ekasitya bhayat srayenat ||

gacchan alayadrstih krurena nipatitah tatah marge |
kiyata prapnoti bilam syenagatih va tada vacyam || 3 ||

nyasah ā

parilekhah 47

labdham akhoh agatabhumih 8 1 2 , syenagatih

42 1 2 .

anena eva prakarena vamsabhangoddesakah ā

astadasakocchrayah vamsah vatena patitah mulat |
sadgatva asau patitah tribhujam krtva kva bhagnah syat || 4 ||

nyasah ā

vamsah 15, mulat yah apasarah tatpramanam ardhajya 6, tasya
vargah 36, vamsapramanena anena 18 bhaktah labdham 2, purvavat
"antarayuktam hinam dalitam" [ganitaī 24] iti vamsasakale 10, 8.

parilekhah 48

uddesakah ã

sodasahastah vamsah pavanena nipatitah svamulat tat |
astau gatva patitah kasmin bhagnah marutvatah vacyah || 5 ||

nyasah ã

parilekhah 49

labdhe vamsasakale 10, 6.

kamaloddesakesu drsyakamalapramanam ekah sarah |
kamalanimajjanabhumih ardhajya | atra purvavat ardhajyavarge sarahrte
mahasarah labhyate tatra drsyakamalasamkramanena jalapramanam
kamalapramanam ca |

uddesakah ã

kamalam jalat pradrsyam vikasitam astangulam nivatena |
nitam majjati haste sikhram kamalambhasi vacye || 6 ||

nyasah ã

parilekhah 50

drsyakamalasya [pramanam] 8, nimajjanabhumih 24 |

karanam ã ardhajyayah caturvimsateh vargah 576, tat
drsyakamalena astabhish bhagalabdham 72 | etat drsyakamalayuktam
80, vihinam ca 64 | ete dalite kamalapramanam jalapramanam ca 40, 32 |

uddesakah ã

angulasatkam kamalam majjati hastadvayam gatam mulat |
icchami tatra boddhum pankajam ambhahpramanam ca || 7 ||

nyasah ã

parilekhah 51

drsyam 6, nimajjanabhumih 48 | labdham purvavat pankajapramanam
195, ambhah pramanam 189.

matsyabakoddesakesu api evam eva ayatacaturaraksetrasya ekah bahuh
ardhajya, bahudvayam mahasarah, sesam musikoddesakavat karma |

uddesakah ã

saddvadasika vapi tasyam purvottare sthitah matsyah |
vayavye kone syat bakah sthitah tadbhayat turnam ||

bhitva vapim matsyah karnena gatah disam tatah yamyam |
parsvena agatyah hatah bakena vacyam tayoh yatam || 8 ||

nyasah ã

parilekhah 52

bakamatsyakaranam ā vapiparsvam ardhajya iti tasya vargah 36,
parsvadvayam mahasarah iti jatam 18 | anena bhagalabdhām 2 | etena
astadasabhih samkramanena labdhām matsyabakatipramanam
vapiparsvasesa ca 10, 8 | parsvasese parsvapatite sesah
daksinaparakonapratih matsyasya | uddesakah ā

dvadasadasika vapi hi agneyasthah bakah atha matsyah api |
aisanyam aparasagatah hatah asau kiyat vacyam || 9 ||

nyasah ā

parilekhah 53

purvavat labdhām daksinaparakonāt bakena gatam 3 3 11 |
pascimabahoh anupravistamatsyagatih 8 8 11 | vilomabijakaranena
etat sarvam anusthitam |

pratyayakaranam ca sarvesu eva ksetresu "yah ca eva bhujavargah
kotivargah ca karnavargah sah" [ganitāī, 17] iti anena eva iti
|| 17 ||

[vrttavagahasarajñanam]

vrttavagahasaranayanaya aha ā

grasone dve vrtte grasagune bhajayet prthaktvena |
grasonayogalabdhau sampatasarau parasparatah || 18 ||

grasena une grasone | ke ? dve vrtte, grahyagrahakamandaladvayam |
grasagune, grasah gunah yayoh te grasagune | bhajayet
prthaktvena, ekaikam | kena ? grasonayogalabdhau | grasonayoh yogah
grasonayogah, tayoh eva vrttayoh grasavivarjitayoh samasah ;
tena grasonayogena labdhau grasonayogalabdhau | sampate sarau
sampatasarau, avagrahasarau iti yavat | parasparatah, anyonyatah |
yasmāt mahaviskambhasya alpah sarah mahatvat mandalasya,
alpavyasasya mahan sarah | yasmāt alpasya mandalasya alpah api
avayavah ativakrah upalabhyate, na tatha mahatah | tasmāt tau
sampatasarau parasparatah bhavatah |

uddesakah ā

asitiviskambhatamomayena dvatrimśat indoh sthagita yada astau |
jñātam tat icchami sarau kiyantau rahoh atha indoh
paripurnamulāih || 1 ||

nyasah ā

parilekhah 54

karanam ā grasone dve vrtte 72, 24 | grasagune 576, 192 |
grasonayogah 96 | anena labdhau sarau candramasah 6, rahoh 2,
parasparatah iti || 18 ||

[sredhiganitam]

atha idanim sredhiganitanayanaya aha ā

istam vyekam dalitam sapurvam uttaragunam samukham madhyam |
istagunitam istadhanam tu athava adyantam padardhahatam || 19 ||

istam, ipsitam | vigatam ekena vyekam | dalitam, ardhitam | sapurvam,
istat padat yani pragavasthitani [padani] tani purvasabdena
ucyante, saha purvena vartate iti sapurvam | uttarah gunah yasya
taduttaragunam | samukham, mukhamadih, saha mukhena vartate iti samukham |
madhyadhanam bhavati | istagunitam, istena gunitam
istagunitam | istadhanam, istasya gacchasya dhanam bhavati |

atra bahuni sutrani muktakavyavasthitani, tesam yathasamyogam
sambandhah | "istam vyekam dalitam uttaragunam samukham" iti
madhyadhananayanartham sutram | "madhyam istagunitam istadhanam"
iti gacchadhananayanartham | "istam vyekam sapurvam uttaragunam
samukham" iti antyopantyadidhananayanartham | "istam vyekam dalitam
sapurvam uttaragunam samukham istagunitam istadhanam" iti
avantarayathestapadasankhyanayanartham | evam etani padonaya
aryaya pratibaddhani | tani yathakramena uddesakesu eva
pratipadayisyamah |

uddesakah ā

adih dvitayam drstam sredhyah pravadanti ca uttaram trini |
gacchah pañca niruktah madhyasese dhane bruhi || 1 ||

nyasah ā adih 2, uttaram 3, gacchah 5 |

karanam ā istam gacchah 5, vyekam 4, dalitam 2, uttaragunam 6,
samukham 8, etat madhyadhanam | etat eva istagacchena gunitam sarvadhanam
jatam 40 |

uddesakah ā

astavadih yasyah pañca pravadanti ca uttaram sredhyah |
gacchah astadasa drstah madhyasese dhane vacye || 2 ||

nyasah ā adih 8, uttaram 5, gacchah 18 |

purvavat labdham madhyadhanam 50 1 2, sarvadhanam 909 |

antyopantyadidhananayane uddesakah ā

ekadasottarayah saptadeh pañcavimsatih gacchah |
tatra antyopantyadhane vada sighram vimsateh ca kiyat || 3 ||

nyasah ā adih 7, uttaram 11, gacchah 25 |

karanam ā istam pañcavimsatih 25, puranam padam ekam iti ekam
rupam 1, etat eva vyekam sunyam 0, etat eva sapurvam iti sunyena
ksipta caturvimsatih 24, uttaragunam 264, samukham 271, etat
antyadhanam | upantyadhananayane atra purvani padani trayovimsatih
23 | etaih purvakaranena upantyadhanam labdham 260 | vimsateh tu

purvapadani ekonavimsatih | etaih purvavat vimsatitamasya padasya
dhanam 216 |

avantare yathestapadasankhyadhananayane uddesakah ã

dvyaditryuttarasankhyam dine dine kartike kramat mase |
pradadati mahipalah pañcadasahe gate viprah ||

brahmisthah sampraptah tasmai datta dasahadhanasankhya |
pañcadinottha anyasmai kathaya dhanam kim tayoh tatra || 4 ||

nyasah ã adih 2, uttaram 3, gacchah 30| atra pañcadasahe gate
brahmisthah agatah tasmai sodasahat prabhrti yat upacitam
dasahadhanam tat dattam iti dasa 10 istam, vyekam iti jatam 9, dalitam
iti 4 1 2, etat sapurvam iti 19 1 2 uttaragunitam iti 58 1 2, samukham iti
60 1 2, istagunitam istadhanam iti dasagunitam jatam 605 |
dvityasya api 415 |

uddesakah ã

pañcadasadih yasmin uttaram astadasa ucyate gacchah |
trimsat madhyadasanam dhanasankhyam ganyatam sighram || 5 ||

nyasah ã

[adih] 15, uttaram 18, gacchah 30, dasasu vyatiriktesu ca sesesu
madhyasthitani padani 10 | labdham purvakaranena 2760 |

sarvadhananayane upayantaram punar api aryapadena aha ã

tu athava adyantam padardhahatam |

athava ayam aparah prakarah | adih ca antah ca adyantam |
adisabdena adidhanam parigrhyate, antasabdena antyadhanam | tat adyantam
| padam gacchah, tasya ardham padardham, padardhena hatam padardhahatam |
tat adyantam padardhagunitam istadhanam iti anuvartanat istadhanam
bhavati |

uddesakah ã

pañcabhih adyah sankhah pañconasatena yah bhavet antyam |
ekadasasankhanam yat tat mulyam tvam acaksva || 6 ||

nyasah ã

adisankhamulyam 5, antyasya 95, sankhah 11 |

karanam ã adyantadhane 100, padardham 5 1 2 anena gunitam
sarvasankhamulyam 550 |

uddesakah ã

adidhanam ekam uktam hi antyadhanam procyate satam sadbhih |
padam api tavat proktam sarvadhanam tat kiyat drstam || 7 ||

nyasah ã

adidhanam 1, antyadhanam 100, gacchah api etat eva 100 | sarvadhanam
purvavat 5050 || 19 ||

[gacchajñanam]

gacchanayanartham aha ã

gacchah astottaragunitat dvingunadyuttaravisesavargayutat |
mulam dvingunadyunam svottarabhajitam sarupardham || 20 ||

gacchah iti anena [pa]dadhanam parigrhyate | astottaragunitat
astabhiih uttarena ca gunitam astottaragunitam | tasmāt
astottaragunitat | dvingunadyuttaravisesavargayutat, dvingunah
ca asau adih ca dvingunadih, dvingunadeh uttarasya ca visesah
dvingunadyuttaravisesah, dvingunadyuttaravisesasya vargah
dvingunadyuttaravisesavargah, dvingunadyuttaravisesavargena yutam
dvingunadyuttaravisesavargayutam, tasmāt
dvingunadyuttaravisesavargayutat gacchadhanat [sarvadhanat]
astottaragunitat mulam, dvingunadyunam dvingunah ca asau adih
ca dvingunadih, tena dvingunadina unam dvingunadyunam, svottarena
bhajitam svottarabhajitam, saha rupena vartate iti sarupam, ardhham dalitam,
gacchah bhavati |

uddesakah ã

adih pañca proktah saptakhyam ca uttaram bhavet sredhya |
pañconasatam dravyam gacchah vacyah kiyan tasya || 1 ||

nyasah ã

adih 5, uttaram 7, sarvadhanam 95 |

karanam ã gacchadhanat astottaragunitat iti gacchadhanam
astabhiih uttarena ca gunitam jatam 5320 | dvingunah adih 10,
etat uttaravisesitam 3, etasya vargah 9, anena yuktam jatam 5329,
etasmāt mulam 73, dvingunadyunam 63, svottarena anena 7 bhajitam 9,
sarupam 10, ardhham gacchah 5 |

uddesakah ã

navakastau vrddhimukhe yatra yat kirtyate dhanam kramasah |
ramastasaram drstam padapramanam tvaya vacyam || 2 ||

nyasah ã

adih 8, uttaram 9, gacchadhanam 583 | purvavat labdham padapramanam 11
|| 20 ||

[citighanajñanam]

sankalanasankalanayanaya aha ã
ekottarayupaciteh gacchadyekottaratisamvargah |
sadbhaktah sa citighanah saikapadaghanah vimulah va || 20 ||

uttaram ca adih ca uttaradi | ekam uttaradi yasyah saikottaradih |

ekottaradih ca asau upacitih ca ekottaradyupacitih | upacitih
sredhi ekottaraditvena visesyate | sa eva ekottaradyupacitih
sankalana iti ucyate | tasyah ekottaradyupaciteh
sankalanasamjñitayah gacchat prabhrti ekottartrisamvargah
ekottaranam trayanam gacchadeh samvargah | tat yatha ā
gacchah, sa ekottaram, punar api ekottaram | trayanam gacchadeh
samvargah | tat yatha ā gacchah, sa ekottaram, punar api ekottaram |
etat uktam bhavati ā gacchah, sa eva ekottarah, sa eva gacchah
dvyuttarah, tesam trayanam samvargah, sadbhaktah
sadbhiih vibhajitah, sa citighanah citeh ghanah citighanah
sankalanasankalana iti arthah | atha anyah karanopayah ā
saikapadaghanah, saikam ca tatpadam ca saikapadam, saikapadasya ghanah
saikapadaghanah, vigatah mulena vimulah sadbhaktah iti anuvartate
| va saikasya padasya ghanaganitam va svamulavirahitam sadbhiih
bhaktam citighanah bhavati |

uddesakah ā

pañcanam astanam caturdasanam ca yah kramat citayah |
gacchah tarah trikona [rupavidhanam ca] me vacyam || 1 ||

nyasah ā

parilekhah 55

yathakramena gacchah 5, 8, 14 |

karanam ā gacchah pañca 5 | ayam ekottarah 6 | punar ayam ekottarah 7
| etesam trayanam samvargah 210 | ayam sadbhaktah
sankalanasankalana bhavati 35 |

dvitiyopayakaranam ā saikapadam 6, asya ghanah 216, ayam vimulah iti
sadbhiih eva rahitah 210, purvavat sadbhaktah
sankalanasankalana bhavati 35 |

sesayoh api labdham yathakramena 120, 560 || 21 ||

[vargacitighanah ghanacitighanah ca]

vargaghanasankalananayanaya aha ā

saikasagacchapadanam kramat trisamvargatasya sasthah amsah |
vargacitighanah sa bhavet citavargah ghanacitighanah ca || 22 ||

saha ekena vartate iti saikah | saha gacchena vartate iti sagacchah |
anantaraprakrtah saikasagacchah | padam gacchah tatra saikam ca [saika]
sagaccham ca padam ca saikasagacchapadani | tesam saikasagacchapadanam
kramat anupurvyat | trayanam samvargitam trisamvargitam | kesam
trayanam ? prakrtanam saikasagacchapadanam | sasthah
amsah | tasya trisamvargitasya sasthah amsah
sasthah bhagah | vargacitighanah sa bhavet | vargasya citih
vargacitih vargaciteh ghanah vargacitighanah | vargasankalana iti
arthah | citivargah ghanacitighanah ca | citeh vargah

sankalanavargah iti yavat | sa eva citivargah ghanacitighanah bhavati

|

uddesakah ã

saptanam astanam saptadasanam caturbhujah citayah |
ekavidhanam vacyam padah tarah tah hi vargakhyah || 1 ||

nyasah ã

parilekhah 56

karanam ã padam 7, saikam 8, etat eva sagaccham 15 | etesam trayanam
samvargah 840, sadbhaktah vargacitighanapramanam 140 |
sesayoh api yathakramena labdham 204, 1785 |

ghanacitau uddesakah ã

caturasraghanah citayah pañcacaturnavastarah vinirdesyah |
ekavaghatitah tah samacaturasrestakah kramasah || 2 ||

nyasah ã

parilekhah 57

parilekhah 58

karanam ã citisankalana | sa ca "athava adyantam padardhahatam" [
ganita í, 29] iti anena aniyate | atra adih ekah 1, antyadhanam
pañca 5, ekatra sat 6, padardhena pañcanam ardhena hatam
sankalanacitih pañcanam jata 15, asya vargah ghanacitighanah
bhavati | sa ca 225 | sesayoh api yathakramena labdham 100, 2025 || 22
||

[prakarantarena rasidvayasamvargajñanam]

dvayoh rasyoh samvarganayana upayantaram aha ã

samparkasya hi vargat visodhayet eva vargasamparkam |
yat tasya bhavati ardham vidyat gunakarasamvargam || 23 ||

samparkah samasah | yena dvayoh rasyoh samparkah bhavati iti
dvayoh eva samparkah parigrhyate | tasya samparkasya | hi padapurane
| vargat, krteh | visodhayet eva, apanayet eva | kim iti aha ã
vargasamparkam | vargikrtayoh samparkah vargasamparkah
vargasamasah, tam vargasamparkam samparkasya vargat visodhayet | yat tasya
bhavati ardham, tasya suddhasesasya ardham dalam yat bhavati | vidyat,
avabuddhyat | gunakarasamvargam, gunakarayoh samvargah
gunakarasamvargah, tam gunakarasamvargam vidyat |

uddesakah ã

pañcanam ca caturnam saptanavanam ca kah bhavet ghatah |
astanam ca dasanam prthak prthak vacyatam sikhram || 1 ||

nyasah ã 5 7 8 4 9 10 karanam ã pañcanam caturnam ca samparkah

9, asya vargah 81; pañcanam vargah 25, caturnam vargah 16, ekatra
41, samparkavargat imam pañcavargacaturvargasamparkam visodhayet | tatra
sesah 40 | asya ardhm pañcanam caturnam ca samvargah labdhah
20 | sesayoh api yathakramena 63, 80 || 23 ||

[gunya-gunakayoh anayanam]

gunakarayoh anayanaya aha ã

dvikrtigunat samvargat dvyantaravargena samyutat mulam |
antarayuktam hinam tat gunakaradvayam dalitam || 24 ||

dvayoh krtih dvikrtih, dvikrtih gunah yasya sa
dvikrtigunah, tasmad dvikrtigunat | kasmad iti aha ã
samvargat | dvyantaravargena samyutat | dvayoh api antaram dvyantaram,
dvyantarasya vargah dvyantaravargah, tena dvyantaravargena samyutat |
dvikrtigunat samvargat dvayoh api antaravargena misritat yat
mulam | tat antarayuktam antarena yuktam antarayuktam | hinam virahitam |
tadgunakaradvayam tasya samvargasya gunakaradvayam | dalitam ardhitam |
uddesakah ã

samvargah astau drstah vyaktam tatra antaram bhavet dvitayam |
astadasake munayah gunakarau tau tayoh vacyau || 1 ||

nyasah ã samvargah 8, antaram 2 | samvargah 18, antaram 7 |

karanam ã samvargah 8, etat dvikrtigunam 32; dvyantaram 2, asya
vargah 4, anena samyuktah 36 | asya mulam 6, etat tena antarena yuktam
8, hinam 4 | yathakramena dalitau parasparagunakarau 4, 2 |

dvitiyoddesake api gunakarau labdhau 9, 2 |
atra gunyagunakarayoh avisesat gunakaradvayam iti ucyate || 24 ||
[mulaphalajñanam]

mulaphalanayanartham aha ã

mulaphalam saphalam kalamulagunam ardhmulakrtiyuktam |
tanmulam mulardhonam kalahrtam svamulaphalam || 25 ||

mulam satadi, phalam vrddhih, mulasya phalam mulaphalam | saha phalena
vartate iti saphalam, atmiyaya vrddhya yuktam mulaphalam iti yavat |
kalamulagunam, kalam ca mulam ca kalamule, kalamule gunau yasya
mulaphalasya tat kalamulagunam mulaphalam | ardhmulakrtiyuktam, [
ardham mulasya ardhmulam mulardham iti, ardhmulasya krtih
ardhamulakrtih, mulakrteh caturthah bhagah iti],
[ardha]krtitvat dvayoh vargena iti caturvibhagah, taya
ardhamulakrtiya yuktam ardhmulakrtiyuktam | tanmulam, tasya eva
nispaditasya mulam tanmulam | mulardhonam, mulasya satadeh ardhena
unam mulardhonam | kalahrtam, kalena hrtam kalahrtam |
svamulaphalam, svasya mulasya phalam svamulaphalam |
uddesakah ã

janami satasya phalam na ca kintu satasya yatphalam saphalam |
masaih caturbhih aptam sad vada vrddhim satasya masottham || 1
||

nyasah ã

100 0 1 4 0 6 masah 4, phalam 6 |

karanam ã mulaphalam saphalam 6, kalamulagunam 2400 |
ardhamulakrtih 2500, anaya yuktam 4900 | etasya mulam 70, mulardhonam
20, kalahrtam [sva]mulaphalam jatam 5 |

pratyayakaranam pañcarasikena ã yadi satasya masiki vrddhih pañca
tada caturbhih masaih satavrddheh [pañcadhanasya] ka vrddhih
iti |

nyasah ã

1 4 100 5 5 0 labdham 1 | etatsahita satavrddhih sad rupani 6 |

uddesakah ã

pañcavimsateh masiki vrddhih na jñayate | ya pañcavimsateh
masiki vrddhih sa tena eva ardhena anyatra prayukta, saha vrddhya
pañcabhih masaih drsta rupa trayam pañcabhagonam | tatra
icchamah jñatum ka pañcavimsateh masiki vrddhih, ka va
pañcavimsativa[r]ddheh pañcamasaprayuktaya vrddhih iti || 2 ||

nyasah ã

25 0 1 5 0 2 4 5

labdham purvakaranena pañcavimsateh masiki vrddhih 2,
pañcavimsativrddheh ca pañcanam masanam vrddhih 0 4 5 |

uddesakah ã

satasya masiki vrddhih na jñayate | kintu satavrddhih anyatra
prayukta pañcabhih masaih saha vrddhya drsta
rupapañcadasakam | tatra icchamah jñatum ka ca satasya masiki
vrddhih ka va satasya vrddheh pañcamasaprayuktaya vrddhih
iti || 3 ||

nyasah ã 100 0 1 5 0 15 masah 5, saphalam 15 |

labdham ã purvavat satavrddhih 10, satavrddheh pañcamasaprayogat
vrddhih 5 || 25 ||

[trairasikam]

trairasikapratipadanarthamadhyardharyam aha ã

trairasikaphalarasim tam atha iccharasina hatam krtva |
labdham pramanabhajitam tasmad icchaphalam idam syat || 26 ||

chedah parasparahatah bhavanti gunakarabhagaharanam |

trayah rasayah samahrtah trirasih | trirasih prayojanam
asya ganitasya iti trairasikah | trairasike phalarasih
trairasikaphalarasih | tam trairasikaphalarasim | athasabdah
parijñānavastuparigrahe uttaragranthapratipadane vartate | atra
evamprakarā arthah kah atra pratipaditah ? ucyate ā paribhasa
| sa ca lokavyavaharat prativisayam bhinna iti lokaprayogat eva
pradarsita | anyatha hi prativisayam bhinnah paribhasah
visayah ca samkhyatitah | tena upadestum asesatah sa na
sakyate | atah athasabdena lokaprasiddham paribhasam pratipadayati |
iccharasina hatam krtva, yah asau phalarasih sa iccharasina
hatah kriyate, tam iccharasina hatam gunitam krtva | labdham,
labdham aptam | katham iti aha ā pramanabhajitam, pramanarasina
bhajitam pramanabhajitam | tasmāt evamvidhat raseh
pramanabhajitat | icchaphalam, icchayah phalam, icchaphalam,
iccharasiphalam iti arthah | idam iti labdham pratyaksikrtya uktam |

atra trairasikam eva kevalam abhihitam acaryaryabhatena,
pañcarasikadayah anupatavisesah katham avagantavyah ? ucyate ā
anupatabijamatram eva acaryena upadistam ; tena anupatabijena
sarvam eva pañcarasyadikam siddhyati | kutah ? pañcarasikadinam
trairasikasanghatatvat | kasmāt pañcarasyadayah
trairasikasamhatah ? pañcarasike trairasikadvayam samhatam,
saptarasike trairasikatrayam, navarasike trairasikacatustayam iti
adi uddesakesu eva upadeksyamah |

yada punah rasayah sacchedah syuh tada katham kartavyam iti aha
ā

chedah parasparahatah bhavanti gunakarabhagaharanam |

chedah parasparasya hatah anyonyahatah | kesam iti atah aha ā
gunakarabhagaharanam | gunyagunakarayoh parasparapeksaya
gunakarattvam , yasmāt gunyah gunakarena gunyate, gunakarah
api gunyena, na kascit phalavisesah | tena uktam gunyagunakarau
gunakarasabdena | gunakarau ca bhagaharah ca
gunakarabhagaharah | atah tesam gunakarabhagaharanam
chekah parasparahatah ye gunakaracchedah bhagaharahatah te
bhagaharah bhavanti, bhagaharacchedah ca gunakarahatah
gunakarah bhavanti iti etat anuktam api avagamyate eva, yasmāt
taddharmaya chedah parasparam niyante | bhagaharanam samvargah
bhagaharah | gunakaranam samvargah gunakarah iti arthat
avagamyate |

uddesakah ā

candanapalāni pañca kritāni maya hi rupakāih navabhih |
candanam ekena tada labhyam [kim] rupakena eva || 1 ||

tatra yathakramena sthāpana | uktam ca ā

adyantayoh tu sadrsau vijñeyau sthāpanasu rasinam |

asadrarasih madhye traikasasadhanaya buddheh ||

iti |

nyasah ã 9 5 1

karanam ã rupakaih navabhih pañcacandanapalani iti nava
pramanarasih, pañca phalarasih | ekena rupena kim iti ekam
iccharasih | tena ekena iccharasina phalarasih gunitah 5,
pramanarasina navakena vibhajyate 5 9 | tatra phalesu bhagam na
prayacchati iti "catuskarsam palam" iti caturbhih gunitam 20 9 |
labdham karsadvayam karsabhagau ca [navanam] | karsab 2
karsabhagah 2 9 |

uddesakah ã

ardrakabharah dasabhih sapañcabhagaih yada abhivikritah |
palasatamulyam sikhram sardhapalasya atra me vacyam || 2 ||

nyasah ã

2000 10 100 1 1 5 2

savarnite sthapana ã

2000 51 201 5 2

"chedah parasparahatah" iti gunakarayoh chedah bhagaharam
gatah | 5, 2 etabhyam chedabhyam bhagaharah gunitah jatah
20000 | [gunakarayoh 201, 51 anayoh ghatah] 10251 | purvavat
labdham vimsopakah 10, vimsopakabhagah ca 251 1000 |

uddesakah ã

astabhih satryamsaih mrganabhya labhyate palam sadalam |
krtaviryena viganyam sapañcabhagena kim maya labhyam || 3 ||

nyasah ã

[8 1 1 1 1 1 3 2 5]

savarnitena ã

[25 3 6 3 2 5]

[purvavat karanena] krtaviryalabdham mrganabhya masakah 13,
guñjah 4, guñjabhagah 3 25 |

uddesakah ã

nagah vimsatihastah pravisati ardhangulam muhurttena |
pratyeti ca pañcamsam katibhih ahobhih bilam praptam || 4 ||

nyasah ã sarpah 480 angulatmakah, pravisati ardhangulam 1 2,
pratiyeti [ca angulapañcabhagah 1 5] |

atra pañcabhagavisuddham ardhangulam sarpasya mauhurtiki gatih iti

pañcabhagam ardhath visodhya sthapanā 9

10, muhurtah 1, sarpapramanangulani 480 |

labdham divasah 53 1 3

misrarasisu api etat eva anupatabijam | tat yatha ā

uddesakah ā

astau dantah trayah danyah iti gavah prakirtitah |
ekagrasya sahasrasya kati dantah kati itare || 5 ||

nyasah ā astau dantah 8, trayah danyah 3, dantadamyam
ekottaram sahasram 1001 |

atra ayam traikasikanyasah ā

dantadamyah 11, dantah 8, sarvasamudayah 1001 |

atra iyam vacah yuktiḥ ā ekadasabhiḥ dantadamyaiḥ astau
dantah labhyante, tat ekagrena sahasrena kiyantah dantah iti
labdhah dantah 728 tatha eva danyah 273 |

evam praksepakaranesu api uddesakah ā

samavayakah tu vanijah pañcaikaikottaradimuladhanah |
labhah sahasrasamkhyah vada kasmai tatra kim deyam || 6 ||

nyasah ā dhanani 1, 2, 3, 4, 5 | labhah sahasram 1000 |

karanam ā praksepakadhanena anena 15, ayam labhah 1000 |
yathakramena ekena dvabhyam iti adi labdhah labhah [prathamasya]
66 2 3, dvitiyasya 133 1 3, tritiyasya 200, caturthasya 266 2 3, pañcamasya
333 1 3 |

bhinne api uddesakah ā

ardhena tritiyena praksepena astamena ye vanijah |
saptatih ekena una labhah tesam kiyam kasya || 7 ||

nyasah ā 1 1 1 | labhah 69 | 2 3 8

atra bhinnaganitanyayena "chedagunah sacchedam" iti savarnite
jatah 12 8 9 24 24 24 | chedaiḥ prayojanam na asti iti amsah
kevalah 12, 8, 3 | etesam purvavat praksepanyayena ekatra [yogah]
23 | anena praksepena asya labhasya 69 bhagah svamsaiḥ prthak
prthak gunitasya traikasikavibhagena labdhah bhagah 36, 24, 9 |

[pañcarasikam]

pañcarasike uddesakah ā

satavrdhīḥ mase syat pañca kiyam masatprayuktayah |
vrdhim vada vimsatya yadi bhataganitam tvaya buddham || 8 ||

nyasah ā 1001 20 1 6 5

karanam ā prathamatrairasikam 100, 5, 20 | labdham rupakah 1 |
dvtiyatrairasikam ā yadi masena rupakah, sadbhih kiyantah iti
labdham rupakah sat |

etat eva ganitam yugapat kriyamanam pañcarasikam bhavati | tatra api
satasya mase iti [satam rupam ca] pramanarasidvayam, pañca iti
phalarasih vimsatya sadbhih masaih kim iti vimsatih
sat ca iccharasih | tatra purvavat eva iccharasih phalarasina
gunitah pramanarasibhyam vibhajyate, phalam purvavat eva |
trairasikam eva etat dvidha vyavasthitam | chedah api purvavat
gunakarabhagaharanam parasparam gacchanti |

[uddesakah] ā

[satasya masadvaya]prayuktasya vrddhih paynna | pañcavimsateh
pañcamasaprayuktayah ka vrddhih iti || 9 ||

nyasah ā 100 25 labdham 3 2 5 1 5 8

uddesakah ā

[satasya ardhacatuska]masaprayuktasya vrddhih ardhapañcakah
rupakah | tada pañcasatah dasamasaprayuktasya ka vrddhih iti
|| 10 ||

nyasah ā 100 50 3 10 1 2 4 1 2

labdham rupakah sat 6, saptabhagah trayah ca 3 7 |

uddesakah ā

vimsatyah sardhayah satryamsah rupakah bhavet vrddhih |
mase sapañcabhage padonanam tu saptanam ||

masaih sadbhih vacyam dasabhagayutaih tu ka bhavet vrddhih |
jñatva chedavikalpam samyak bhatatantrasutrena || 11 ||

savarnite sthapana ā 41 27 2 4 6 61 5 10 4 0 3

labdham rupakadvayam [2, vimsopakah] 4, vimsopakabhagah ca 26
41 |

[saptarasikam]

saptarasike uddesakah ā

saptocchritasya karinah trimsat paridheh navayatasya yada |
nava kuduvah labhyante nityam samsuddhasaliprthukanam ||

pañcocchritasya vacyam saptayam asya dantinah kim syat |
astavimsatiparidheh vacyah prthukah tada labhyah || 12
||

sthapana ā 7 5 30 28 9 7 9 0

labdham prthukakuduvah 4, setike 2, setikabhagah 2 3

uddesakah ã

hastyuttamasya caturhastocchritasya sadayatasya pañcaparinahasya
ardhatrtiyah kuduvah labhyante masanam yada tada
tryucchritasya pañcayatasya ardhapañcamaparinahasya kim labhyam || 13 ||
nyasah ã 4 3 6 5 5 9 2 5 0 2

labdham kuduvah 1, setika 1, manakau 2, ardhamanakam 1 2 | evam
navarasyadisu yojyah |

[vyastatraitsikam]

vyastatraitsikam api etat eva | tatra gunakarabhagaharaviparyase
visesah | tat yatha ã

[uddesakah]

pañcasauvarnike pale drstani sodasa palani suvarnasya yada
tada catussauvarnike kiyanti iti || 14 ||
nyasah ã 5 16 4

atra pañcasauvarnikena palena sodasa palani iti pañcabhih
sodasa gunitah suvarnah bhavanti | ete suvarnah caturbhih
hrtah catussauvarnikapalani bhavanti | evam labdhani palani 20 |

svasiddhante ca yadi vyasardhamandale bhujaphalam idam labhyate tada
tatkalotpannakarnaviskambhardhamandale kim iti tatra mahati
karnapramane alpiyasyah [bhujaphalakala] bhavanti, alpakarne
vahvyah iti vyasardham gunakarah [karnah bhagaharah] |

uddesakah ã

astau pitakah drstah caturdasaprasrtikena manena |
astaprasrtikamane pitakah ke syuh tada vacyah || 15 ||

nyasah ã 8 14 8

labdham pitakah 14 || 26-27 ||

[kalasavarnanam]

kalasavarnoddesapradarsanartham aryapascardham aha ã
chedagunam sacchedam parasparam tat savarnatvam || 27 ||
saha chedena vartate iti sacchedam | kim tat ? rasirupam | atra sacchedam
rasirupam vinyasya etat ucyate ã "chedagunam sacchedam parasparam" iti |
chedah gunah yasya rasirupasya tadrasirupam chedagunam |
parasparam anyonyam, ekena rasicchedena itarah rasih sacchedah
gunyate, itarena api itarah [rasih tadvat vinyastah] | tat
savarnatvam, tat eva nirvartitam karma savarnatvam | savarnakayoh
yatha istam samyogah vislesah ca |

uddesakah ã

ardham sasthan dvadasabhagam caturthabhagasamyuktam |
ekatra kiyat dravyam nirdesyam tatkrmena eva || 1 ||

nyasah ã 1 1 1 1 2 6 12 4

karanam ã dvayoh 1 1 2 6, etau parasparacchedena gunitau sacchedau
rasi 6 2 12 12 | ekatra 2 3 | punar trtiyarasina sthapana 2 1 3 12,
praksiptena [3] [4] | evam caturtharasina 3 1 4 4, labdham rupakam 1
|

uddesakah ã

ardham sasthan bhagam trtiyakena sahitam kiyat dravyam |
ardham sasthan dvadasakah vimsah sapañcabhagah ca || 2 ||

nyasah ã 1 1 1 2 6 3

dvitiyoddesake sthapana ã 1 1 1 1 2 6 12 20 5

labdham purvakaranena ubhayatraikarasikam rupam 1, 1 |

uddesakah ã

ardham sadbhagonam pañcamsam ca api saptabhagonam |
tryamsam padanam va ganayate [ganakah] kiyat dravyam || 3 ||

nyasah ã 1 1í 1 1í 11í 2 6 5 734

labdham yathakramena ã 1 2 1 3 3512

[viparitakarmanam]

pratilomakaranapradarsanartham aha ã

gunakarah bhagaharah bhagaharah te bhavanti gunakarah |
yah ksepah sah apacayah apacayah ksepah ca viparite || 28 ||

gunakarah bhagaharah, ye gunakarah asan te pratilomakramani
[bhagaharah bhavanti] | bhagaharah te bhavanti gunakarah, [ye]
bhagaharah te gunakarah bhavanti | yah ksepah sah
apacayah, purvam yah ksepah asit sa vilomakarmani apacayah
bhavati | apacayah ksepah ca, yah apacayah sa ksepah
viparitakarmani bhavati |

atra ye uddesakah te prayasah pradarsitah | svatantre api ca
chayanitasankoh ghatikanayanam prati vyasardham bhagaharah
asit iti gunakarah, lambakah gunakarah asit iti bhagaharah
| tatra uttaragole [ksitijya ksipe] dityapaniyate, daksinagole
apanayet iti praksipyate | tatah viparitatvat eva vyasardham
gunakarah, svahoratrardham bhagaharah | labdhajya
viparitakarmana eva kasthikriyate | tasmin kaste uttaragole
carapranah prakspyante visodhitatvat, daksinagole visodhyante
ksiptatvat iti adi | evam sarvatra svatantre viparitakarmanam niyojyam |

anyatra api uddesakah ã

dvigunam rupasametam pañcavibhaktam tritaditam bhuyah |
dvyunam saptavibhaktam labdham rupam kiyat bhavet purvam || 1 ||

nyasah ā 2 gu, 1 kse, 5 ha, 3 gu, 2 u, 7 ha, saptabhīh bhagalabdham
rupakam 1 |

karanam etat ā labdham rupam 1, saptabhīh gunitam jatam 7, dvabhyam
yuktam 9, tribhīh bhaktam 3, pañcagunam 15, ekonam 14, dalitam labdham 7 |

uddesakah ā

trigunam rupavihinam dalitam dvabhyam samanvitam bhuyah |
bhaktam tribhīh tu tasmāt dvikahinam kim bhavet rupam || 2 ||

nyasah ā 3 gu, 1 u, 2 ha, 2 kse, 3 ha, 2 u, labdham rupam 1
|purvavat agatam 5 || 25 ||

[anekavarnasamikaranavisesah]

rasyunakramasankalitanayanam aha ā

rasyunam rasyunam gacchadhanam pinditam prthaktvena |
vyekena padena hrtam sarvadhanam tat bhavati evam || 29 ||

rasina unam rasyunam | [rasyunam] rasyunam iti anaya vipsaya
anantyam ganitakarma pradarsayati | gacchah padam paryavasānam iti
paryayah | gacchasya dhanam gacchadhanam, padadhanam | rasyunanyayena
yavat padam tat gacchadhanam ucyate | pinditam prthaktvena |
pinditam ekatra krtam | prthaktvena iti rasyunakramalabdhapadanam
avinastasthanam pradarsayati | avinastasthanaprayojanam ca
sarvadhanam ca sarvadhanat avinastasthanapadadhane apanite prthak
prthak padanam dhanani bhavanti | yadi kevalam
sarvadhanaparijñanamatram eva syat tada pr(tha)ktvena iti anarthakam
syat, yasmāt aprthakkarane api sarvadhanasya siddhatvat | vigatam ekam
vyekam, tena vyekena, tena padena ca | vyekaih padaih iti bahuvacanena atra
bhavitavyam | na esah dosah | padajatim angikrtya
"jatyakhyayam ekasmin bahuvacanam anyatarasyat" [astadhyayi, 1.2.58
] iti ekavacanam krtam | tena yah arthah vyekaih padaih iti sa eva
arthah vyekena padena iti avagamyate | hrtam bhaktam | sarvadhanam,
sarvesam padanam yathakramena dhanam ekatra tat sarvadhanam ucyate |
tat bhavati evam, yat evam krte karmani tat sarvadhanam bhavati |

uddesakah ā

mattamattakarenuvikkaracita yutha gajanam vane
ekapayacayena [ye atra] ganitah trimsat rasanam krtih |
saptanam api sa eva ca ekasahita nagagram aganyatam
yuthanam ca prthak prthaktvaganitam nirvarnyatam tattvatah || 1
||

nyasah ā 30, 36, 49, 50 |

karanam ā etani dhanani avinastani ekatra 165 | vyekam padam 3 |
anena labdham sarvadhanam 55 | etasmāt prathamapadam apasya mattagram 25,
dvitiyam apasya amattasankhya 19, tritiam apasya karenusankhya 6,
caturtham apasya vikkasankhya 5 |

uddesakah ā

nagah vajakharostravesaragavam ekaikahinah kramat
astavimsatih ekahinaganita ruponam antyam punar |
tesam sarvadhanam prthak ca niyamat vacyam tvaya niscitam
krtstnam ca aryabhatapranitanitam drstam guroh antike || 2
||

nyasah ā 28, 27, 26, 25, 24, 23, 21 | labdham sarvadhanam 29 | prthak
prthak 1, 2, 3, 4, 5, 6, 8 || 29 ||

[ekavarnasamikaranam]

samakaranoddesakapradarsanartham aha ā

gulikantarena vibhajet dvayoh purusayoh tu rupakavisesam |
labdham gulikamulyam yadi arthakrtam bhavati tulyam || 30 ||

gulikasabdena avijñatamulyavastvabhidhiyate | gulikanam antaram
gulikantaram tena gulikantarena, avijñatamulyavastunam antarena iti
arthah | vibhajet dvayoh purusayoh tu rupakavisesam | dvayoh iti
anena dvayoh eva idam karma na tryadinam iti etat pradarsayati |
rupakavisesam iti anena ca nirjñatasankhyam dhanam parigrhyate |
rupakam dinaradikam | labdham gulikamulyam, yat atra labdham tat
gulikamulyam | yadi arthakrtam bhavati tulyam, yena arthena krtam tat
tulyam sadrsam bhavati |

uddesakah ā

asvah laksanayuktah vanijah nityam balanvitah sapta |
prathamasya maya drstam dravyasatam ca eva hastagatam ||

nava turagah nirdrstah dravyasitih dhanam dvitiyasya |
vacyam ghotakamulyam tulyardhena eva tulyadhanau || 1 ||

nyasah ā 7 100 9 80

karanam ā gulikantaram 2, rupakavisesam 20, etat gulikantarena
vibhaktam ghotakasya ekasya mulyadravyam dasa 10 | anena ardhena
prathamasya ghotakanam mulyam 70, dvitiyasya 90, [sva]svahastagatena
anena [ca] gatau tulyadhanau 170 ubhayoh api |

uddesakah ā

kunkumapalani ca astau ekasya dhanasya rupaka navatih |
dvadasa palani vidyat anyasya dhanasya rupakah trimsat ||

tulyardhena ca kritam kunkumam dvabhyam kiyat palardhena |
icchami tatra boddhum mulyam vittam ca tulyam eva tayoh || 2 ||

nyasah ā 8 90 12 30

labdham purvavat kunkumapalasya ekasya mulyam 15 | tulyadhanam 210
ubhayoh |

ete eva gulikah ajñatapramanah yavat tavantah ucyante,
rupakah eva tatra api | yavat tavat samjñaya api uddesakah
abhidhiyante | tat yatha ā

[uddesakah]

sapta yavat tavat sapta ca rupakah samah dvayoh yavat tavatoh
dvadasanam [ca] rupakanam, kiyantah yavat tavat pramanah ||

3 ||

nyasah ā 7 7 2 12

karanam ā purvavat gulikanam yavat tavatam visesah upari suddhe
5 | adhah suddhe rupakavisesah 5 | yavat tavat visesena
rupakavisesasya bhagalabdham yavat tavat pramanam 1 | etena yavat
tavat pramanena yavat tavantah gulikah jatah kramena 7, 2;
svan svan rupan praksipyam samah | prathamasya 14, dvitiyasya tat eva
14 |

uddesakah ā

nava gulikah sapta [ca] rupakah samah trayanam [tu] gulikanam |
trayodasanam ca rupakanam tada kim gulikamulyam || 4 ||

nyasah ā 9 7 3 13

labdham gulikamulyam 1 |

yada punar rupakah sodhyah bhavanti tada ā

uddesakah ā

nava gulikah rupakah caturvimsatih nam dve gulike [ca] |
astadasa rupakah samah [kathaya] kim gulikamulyam || 5 ||

nyasah ā 9 24 2 18 atra gulikah upari suddhyante, rupakah adhah
sodhyah na suddhyanti | tatah ā

sojjham bhunaradhanam anam anado nayamado nayamado sojjham |
viparite sadhanae sojjham va kim va guholam ||

atra gulikah upari sodhyah gulikabhyah suddhyante;
adhahsodhyah rupakah na, sodhyatvat ca viparitam praksipyante |
praksipte sati jatah 42 | gulikavisesaih saptabhih bhagalabdham
sat 6 | [prathamasya yavat ta]vat pramanam 9, sadgunitam 54,
rnagatarupakah caturvimsatih suddhah sesam trimsat 30 |
[dvitiyasya] dve gulike sadbhih gunite 12, astadasayukte 30 |
evam samadhanah |
samakaranesu [evam] sarvatra yojyam || 30 ||
[yogakalajñanam]

yogakalanayanartham aha ā

bhakte vilomavivare gatiyogena anulomavivare dvau |
gatyantarena labdhau dviyogakalau atitaisyau || 31 ||

bhakte, hrte | vilomavivare, ekah gacchati aparah tatpratimukham
pratyagacchati tat vilomavivaram, anulomagateh vilomagateh ca antaram iti
| atra anulomasabdah luptanirdistah pratyetyayah | athava
vilomavivaram evamprakaram eva parigrhyate, yadi dvau api vilomagati
syatam, tada anulomavivaram eva syat | tasmin vilomavivare bhakte | kena
iti aha ā gatiyogena | gatyoh yogah gatiyogah, tena gatiyogena |
anulomavivare, anulomagateh vivaram anulomavivaram | dvau iti dvayoh
pratilomanulomayogakalayah param amsam karoti | gatyantarena, gatyoh
antaram [gatyantaram] gativisesah, tena gatyantarena | labdhau
dviyogakalau, dvayoh yogah dviyogah, dviyogasya kalau dviyogakalau |
atitaisyau atitah ca esyah ca atitaisyau | atitah
atikrantah, esyah bhavi | tat yatha ā yada ekah grahah purastat
sthitah vakri, [anyah] pascata avasthitah carena gacchati, tayoh
antaralalipta vilomavivaram | tatra ekasya anulomacarinah, aparasya
pratilomam agacchatah alpena kalena yogah bhavisyati iti tayoh
bhuktivyogena bhagah hriyate, yasmāt tavan eva tayoh ahnikah bhogah
| tena trairasikam kriyate ā yadi anena ahnikena bhogena ekah divasah
labhyate, tada anena vilomavivarena kim iti | divasa ghatika va
labhyante | tavan kalah atikrante yoge atitah, bhavini yoge esyah
| tatra samalīptavidhanam bhuktya trairasikam ā yadi sastyā
ghatikabhih grahasphutagatih labhyate, tada
vilomopannaghatikabhih ka bhuktih iti labdham anulomagatau grahe
praksipyate vilomagateh apaniyate | evam tau samalīptau
grahavistakalāsambhavau bhavatah | atha vakragatih pascata
avasthate, purastat anulomagatih tada labdham phalam vakragatau
praksipyate atikrantatvat, anulomagatih visodhyate atikrantatvat eva |
yada punar anulomagati etau bhavatah tada bhuktivisesena
anulomavivarasya bhagah, yasmāt bhuktivisesatulyam ahnikam gatyantaram
tayoh | tatra anena gatyantarena bhuktivisesena janitena
sastih nadyah upalabhyante tada anulomavivarena kim iti
ghatikah labhyante | tabhih ca grahasphutabhuktya saha trairasikam
ā yadi sastyā sphutabhuktih labhyate, abhih ghatikabhih kim
iti | labdham sighragatau pascata vyavasthite ubhayam ubhayatra svam svam
praksipyate | sighragatau purasthite tat ubhayam ubhayasmāt apaniyate
| evam dviyogakalau atitaisyau bhavatah | yada ca dvau api vakragati
bhavatah tada api evam eva karma | idam eva karma asmabhih karmanibandhe
uktam ā

grahayoh antaram bhajyam pratilomanulomayoh |
bhuktivyogena va anyatra bhogavislesasankhyaya ||

dinadih labhyate kalah yoginam yogakarakah |
bhukteh anekarupatvat sthulah kalah sa gamyate ||

samalīptavatah yuktya kuryat tantrasya vedita |
sopadesat guroh nityam abhyasat va avagamyate ||

[mahabhaskariyam, 6.49-51]

iti |

suryacandramasoh api ā

gantavyayatathisesahate ravindroh bhukti kramena

dinabhuktivisesabhakte |

labdhena yuktarahitau sasitigmarasmi jñeyau samau sakalalokavidhanahetu

||

[mahabhaskariyam, 4.64]

laukikaganite api uddesakah ā

sardham yojanam ekah valabhitah yati asau dinena eva |

agacchati harukacchat padayutam yojanam hi aparah ||

antaram anayoh drstam tu astadasa yojanani pathikena |

vacyam yogah kiyata kalena abhut tayoh ganaka || 1 ||

nyasah ā valabhiprasthitasya [gatih] 3 2, harukacchat agacchatah

[gatih] 5 4, tayoh vilomavivaram 18 |

karanam ā anayoh gatiyogah 11 4 | anena vilomavivarasya bhagalabdham

divasah 6, divasabhagah ca 6 11 |

anulomavivaroddesakah ā

valabhitah yati narah gangam divasena yojanam sardham |

aparah tribhagahinam sivabhagapurat tada yati |

astau trigunani tayoh antaram uktam ca yojanani budhah |

ekena patha yatau kiyata kalena samyuktau || 2 ||

nyasah ā valabhiprasthitasya gatih 3 2, sivabhagapuraprasthitasya

gatih 2 3, anulomavivaram 24 |

karanam ā etayoh gativisesah 5 6, anulomavivaram 24 | asya

gativisesena bhagalabdham divasah 28, divasabhagah ca 4 5 || 31 ||

[kuttakarah]

idanim kuttakaraganitam abhidhiyate | tatra aaryasutradvayam ā

adhikagrabhagaharam chindyat unagrabhagaharena |

sesapasparabhaktam matigunam agrantare ksiptam || 32 ||

adhauparigunitam antyayuk unagrachedabhajite sesam |

adhikagrachedagunam dvicchedagram adhikagrayutam || 33 ||

adhikagrabhagaharam chindyat | agram sesah | adhikagram yasya sah

ayam adhikagrah | adhikagrah ca asau bhagaharah ca

adhikagrabhagaharah | tam adhikagrabhagaharam, chindyat vibhajet iti

arthah | kena iti aha ā unagrabhagaharena | sesapasparabhaktam |

labdhena na asti prayojanam, sesena saha karma kriyate | parasparena

bhaktam parasparabhaktam, itaretarabhaktam iti arthah | sesena saha

parasparabhaktam sesapasparabhaktam | matigunam, svabuddhigunam iti

arthah | katham punar svabuddhigunah kriyate ? ayam rasih kena
gunitam idam agrantaram praksipya visodhya va asya raseh suddham
bhagam dasyati iti | agrantare ksiptam | samesu ksiptam visamesu
sodhyam iti sampradayavicchedat vyakhyayate |

evam parasparena labdhani padani avasthapyā, matih ca adhah,
pascimalabdham ca matya adhah | adhuparigunitam, adhahsthitena
rasina uparirasih gunitah | antyayuk, antyena rasina
pascimalabdhenā sahitah | evam bhuyah bhuyah karma yavat
karmaparisaṃmāptim iti | unagrachedabhajite sesam, unagrasya yat
chedam tena bhajite sesam, tena unagrachedena purvaganitakarmana
niṣpannaraseh vibhaktasesam pariṅrhyate | adhikagrachedaḅgunam,
adhikagrachedena abhyastam | dvicchedaḅgram, dvayoh chedayoh aḅgram, aḅgram
sankhya | adhikagraḅyutam, adhikagreḅna yutam adhikagraḅyutam | etat uktam
bhavati ā unagrachedabhajite sesam adhikagrachedena abhyastam
adhikagraḅsahitam tat dvayoh api chedayoh bhajyarasih bhavati iti |

evam sagraḅkuttakarah vyakhyatah | niragraḅkuttakarah api
uttaratra vaksyati |

uddesakah ā

pañcabhih ekam rupam dve rupe ca eva saptabhagena |
avasisyate tu rasih viganyatam tatra ka sankhya || 1 ||

nyasah ā 1 2 5 7

karanam ā adhikagrachedam sapta 7, unagrachedena pañcakena 5, bhajite
sesam upari dvau 2 adhah pañca 5 | alpah rasih iti atra eva matih
kalpyate | ayam [upari] rasih kena gunitah rupam agrantaram
praksipya pañcabhih suddham bhagam dasyati iti labdha matih dve
rupe | bhagalabdham ekam 1, sesam 0 | asya sthapana 2 1 |
tritiyapadasya asambhavat etat eva sañjatam | unagrachedabhajite
sesam 2, adhikagrachedena saptakena gunitam jatam 14,
adhikagra[2]sahitam 16 | etat eva dvicchedaḅgram | ayam eva rasih
pañcabhih bhagam hriyamanah ekagrah, saptabhih dvyagrah iti |

uddesakah ā

dvadasabhih pañcagrah saptagrah sa ca punar maya drstah |
ekatrimsadbhaktah kah asau rasih bhavet ekah || 2 ||

nyasah ā 5 7 12 31

karanam ā "adhikagrābhagaharam chinyat unagrābhagaharena" iti
sesam upari sapta, adhah dvadasa | etayoh parasparabhakte labdham
ekam, punar ekam eva, sesam upari dvau adhah pañca | atra matih |
samani padani iti ayam rasih kena gunitah rupadvayam agrantaram
praksipya pañcabhih suddham bhagam dasyati iti labdham rupam
catuskam matih | tam purvalabdhasya adhah vyavasthapyat |
bhagalabdham ca rupadvayam iti evam labdham adhah vyavasthapyah |
"adhauparigunitam antyayug" iti anena nyayena labdham 10 | etat eva

"unagrachedabhajite sesam adhikagrachedagunam" jatam 310,
"adhikagrayutam dvicchedagram" tat ca idam 317 |

uddesakah ã

astabhiih pañcagrah caturagrah kirtitah navabhiih eva |
saptabhiih ekagrah asau viganyatam kah bhavet rasih || 3 ||

nyasah ã 5 4 1 8 9 7

karanam ã 5 4 8 9. etayoh kuttakarena [labdham] rupam 1,
rasih ca trayodasa | atra chedayoh abhyasah bhagaharah iti
sthapana 13 1 72 7 | etayoh purvavat labdhah rasih 85 | ayam
rasih astabhiih bhagam hriyamanah pañcagrah, navabhiih
caturagrah, saptabhiih ekagrah iti |

uddesakah ã

dvyadyaih satparyantaih ekagrah yah avasisyate rasih |
saptabhiih eva sa suddhah vada sigrham kah bhavet ganaka || 4 ||

nyasah ã 1 1 1 1 1 0 2 3 4 5 6 7

atra icchaya adhikagrah rasih parikalpaniyah | labdham purvavat
rasipramanam 301 | evam sagrakuttakarah vyakhyatah |

[niragrakuttakarah] idanim tu eva sutre niragrakuttakaratham
vyakhyasyamah | adhikagrabhagaharam chindyat apavartayet iti arthah
| kena iti aha ã unagrabhagaharena | agram sankhya, unam ca
tadagram ca unagram, unagram ca tat bhagaharah ca sa
unagrabhagaharah, tena unagrabhagaharena, apavartayet iti arthah
| yatha ekavimsatih saptabhiih apavartyate | yena bhagaharah
apavartitah tena eva bhajyah api apavartaniyah | katham idam avagamyate
yena eva bhagaharah apavartitah tena eva bhajyah api apavartaniyah
iti ? sampradayavicchedat | athava nyayah esah, apavartitasya
bhagaharasya apavartitena eva bhajyena bhavitavyam iti, yatha saptabhiih
ekavimsatih bhagah apavartitah tribhagah | athava
bhagaharasya apavartanam bruvata acaryena bhajyasya api apavartanam
abhihitam eva | kutah ? bhagaharabhajyayoh sahacaritvat | yatha
sthalani parimrjyantam iti ukte sarakani api parimrjyante |
adhikagrabhagaharam iti adina granthena etat pratipadayati ã
apavartitayoh bhagaharabhajyayoh kuttakarah iti |
sesaparababhaktam, bhagaharabhajyayoh parasparabhaktam iti |
matigunam iti etat purvena samanam | agrantare ksiptam, agram
sankhya, agrasya antaram agrantaram sankhyantaram iti arthah | tat ca
icchaparikalpitam idam sankhyantaram praksipy apaniya va asya
raseh suddham bhagam dasyati iti | adhauparigunitam antyayuk iti etat
sarvam purvena samanam | unagrachedabhajite sesam,
apavartitabhagaharasesam iti arthah | kuttakarah bhavati iti
vakyasesah | upari [rasih] bhagaharena bhaktah [karyah]
adhorasih bhajyarasina bhajyah | ganite api uktam ã

upari ca bhagaharena bhakte hi rasih bhavet va |

iti evam adina granthena | sese kuttakarabhagalabdhe bhavatah iti
| adhikagrachedagunam iti adi na niragrakuttakaresu [upayujyate]
|

tat yatha uddesakah ã

astau kena abhyastah sadrupayutah hrtah trayodasabhih |
dadyuh suddham bhagam kah gunakarah kim aptam ca || 5 ||

nyasah ã 8 6 13

bhajyah astau, bhagaharah trayodasa, agrantaram sat |

karanam ã bhajyabhagaharasi rupena apavartitau 8 13
"sesaparaparabhaktam" iti jatam 1 1 1 1 | parasparabhaktasesam 1 2 |
"matigunam agrantare ksiptam" iti ayam ekah rasih kena gunitah
sadrupani praksipya dvabhyam suddham bhagam dasyati iti matih
dve 2, matya gunitam jatam 2 2 | etat sadrupayutam 8 2 | labdham
rupacatuskam 4 | etat sarvam yathakramena 1 1 1 1 2 4 |

"adhauparigunitam antyayuk" iti jatam 22 14 | "unagrachedabhajite
sesam" iti unagra[=apavartita]bhagaharabhajyabhaktasesam sthapitam
9 6 | ayam kuttakararah bhagalabdham ca |

uddesakah ã

ekadasa kena hatah trikarahitah te hrtah trivimsatya |
dadyuh suddham atha amsam labdham gunakam ca me bruhi || 6 ||

nyasah ã 11 23

[trika]rahitat labdham purvakramena eva kuttakararah bhagalabdham ca
17 8 |

[grahakuttakararah, mandalasesavidhih]

atha idanim grahaganite kuttakararah yojyate ã ravibhaganah
kena gunitah mandalasesam apaniya bhudivasanam suddham bhagam
dadyuh iti ravibhaganah bhudivasah ca nyasyante 4320000 1577917500 |
etau unagrachedartham parasparena bhajyau | sesam unagrachedah
pañcasaptatisatani 7500 | anena apavartitau 576 210389| etau
unagrachedabhajitau sesau | etayoh bhagavatah bhaskarasya
kuttakararah sadhyah |

uddesakah ã

madhyam raveh mrgapatau dhanuh amsakardhe
drstam maya dinakarodayakalajatam |
aganyatam dinaganah bhatasastrasiddhah
yatah ca tasya bhaganah kalikalasiddhah || 7 ||

nyasah ã [madhyamaravih] 4 | 28 | 20 |

"ganakarah bhagaharah" [ganitaí, 28] iti
mandalasesanayanam | tat yatha ã savitaram liptikrtya jatam 8900
| etat anena 210389 gunitam khakhasadghanena [21600] bhaktam, labdham
mandalasesam 86688 | idam eva mandalasesam agrantaram parikalpya
kuttakarah kriyate |

[nyasah] 576 agrantaram 86688 210389

labdham kuttakaranyayena ã 8201068565 22452768

unagrabhagaharabhajyabhaktasesau ã [105345 288]

[288] etat kaliyatam, aharganah ca ã 105345 |

athava ekarupapacayena kuttakaram krtva aharganah
mandalani ca aniyante | tat yatha ã ekapacayena
kuttakarabhagalabdham ã 94602 259

anena mandalasesena ca trairasikam ã yadi ekarupapacayena ayam
kuttakarah mandalasesapacayena kiyam iti nyasah ã 1,
94602, 86688 | atra labdham nirapavartitadivasaih vibhaktasesam
aharganah purvalikhitah eva | mandalanayane ekarupapacayena idam
bhagalabdham, mandalasesapacayena kiyat iti nyasah ã 1, 259, 86688
| atra labdham nirapavartitamandalaih vibhaktam sesam mandalani
purvalikhitani eva |

[mandalagantavyavidhih]

athava nirapavartitabhagaharabhajyarahsi [mandalagantavyam]
[ksepah ca] parikalpya kuttakarah kriyate | tat yatha ã

gantavyam ravina astam asya bhavanasya ahuh kalanam satam
sañcintya asu vada asmakasya ganitam jñatam tvaya cet yadi |
yavanti adya kaleh gatani matiman varsani sarvani me
tu ahnam yah ca ganah sa ca eva visadam vacyam kaleh yah gatam ||
8 ||

nyasah ã gantavyam ravina ã 7 1 40

anena mandalagantavyena "gunakarah bhagaharah" iti
mandalagantavyam 123701 | anena upacayagrena purvavat aharganah
kaliyatam ca 105345 288 |

ekarupopacayena kuttakarah bhagalabdham ca 115787 317 | purvavat
anena api yadi ekarupopacayena ayam kuttakarah bhagalabdham va
mandalagantavyopacayena [123701] kah kuttakarah bhagalabdham ca
iti labdham nirapavartitabhagaharabhajyabhaktasesam aharganah
bhagalabdham ca |

atra mandalagantavyapraksepam ekam adhikam bhavati | atah mandalam
ekam apaniyate | evam mandalakuttakarah vyakhyatah |

[rasikuttakarah]

idanim tu rasikuttakarah ucyate | tat yatha ā

uddesakah ā

vatya hrtah sabhaganah divasasya bharttuh
ye rasayah divasarasivasena labdhah |
sesam trisapta navapañca ca bhagaliptah
vacyam divakaragam dinarasisakam || 9 ||

nyasah ā 0 0 21 59

karanam ā "gunakarah bhagaharah" iti rasisesam labdham 154168
| apavartitaravibhaganah dvadasagunah rasayah iti sthapanā
6912 210389 | rasisesam 154168 |

labdham kuttakaragramena aharganah bhagalabdham ca ā 176564 5800

bhagalabdham dvadasabhih vibhajya labdham bhuktabhaganah | sesam
rasayah | te ca 483, [4] | aharganah [176564 | athava] yavat
abhirucitam prchakaya |

ekarupapacayena api kuttakaram krtva labdham ā

113078 3715

etabhyam api trairasikena aharganah bhagalabdham ca 176564 5800

sesam samanam |

[prakarantarena sadhanavidhih]

anye punar dvadasanam bhudivasanam ca ekapanayena kuttakaram
krtva trairasikam kurvanti | yasmat mandalasesasya dvadasa
gunakarah | tatra gatah rasayah mandalasesam ca labhyante |
tat yatha ā

nyasah ā 12 210389

atra labdham kuttakarah bhagalabdham ca ā 122727 7

sesam uktatvat na uktam |

[bhagakuttakarah]

bhagasesah uddesakah ā

bhaganabhavanabhagah vatanitah samastah
dinakaraparibhuktah liptikah pañca drstah |
vada yadi dinarasim vetsi cet asmakiyam
gatam api dinabhartuh mandaladyam ksanena || 10 ||

nyasah ā 0 0 0 5

[labdham] bhagasesam ā 17532

purvat labdham aharganah bhagalabdham ca ā 62715 61812

yada punar ekapanayena kuttakaram krtva trairasikam kriyate tada

api sa eva aharganah, tat eva bhagalabdham | tat yatha ā ekapanayena
api kuttakarabhagalabdhe syatam | te ca ā 59873 51011
anena trairasikena purvavat labdhah eva aharganah bhagalabdham ca |
bhagalabdhe sastisatratrayabhakte gatamandalani rasibhagah ca
jatah 171, 8, [12] |

anye punar trimsatah nirapavartitabhudinanam ca kuttakaram
krtva trairasikena gatabhagan rasisesam ca anayanti | tat yatha
ā

[nyasah] ā 30 210389 [atra] kuttakarah bhagalabdham ca ā 7013 1
anena trairasikam krtva rasisesam gatabhagah ca ā 84740 12 anena
rasisesena ahargananayanasya abhihitvat na uktam |

[liptakuttakarah]

evam liptasesam drstva kuttakarah kriyate | tat yatha ā

uddesakah ā

mandalarksalavaliptika hrta marutena [vikala pradrasyate] |
kathyatam dinaganah vivasvatah bhuktamandalagrhamsaliptikah
|| 11||

nyasah ā 0 0 0 0 1

purvavat labdham liptikasesam ā 3506

karanam ā khakhasadghanena apavartitaravibhaganan samgunayya
sthapana ā 12441600 210389

atra bhagaharena bhajyam vibhajya labdham prthagvinastam sthapayet
| sesasya bhudivasanam ca kuttakaram krtva labdhasya
uparirasim kuttakaram avinastasthapitena prthak samgunayya
bhagalabdham praksipet | bhagalabdham bhavati | anena kramena labdham
aharganah bhagalabdham ca | sthapana ā 125342 7412246

bhagalabdhe khakhasadghanabhakte gatamandalani rasibhagaliptah
ca ā 343 1 27 26

athava ekapanayena kuttakaram krtva trairasikam kriyate | tat
yatha ā ekapanayena kuttakarah bhagalabdham ca ā 81647 4828291

sesam uktatvat na uktam |

athava sastya bhudivasanam ca ekapanayena kuttakaram krtva
bhagasesam gataliptah ca labhyante anupatena | tat yatha ā
ekapanayena sastya bhudivasanam ca kuttakarah bhagalabdham
ca ā 108701 31

evam liptatatparasesayoh api yojyam |

atha kascit suryam uddisya kiyata kalena punar evamvidhah suryah
bhavisyati iti prchati, sa evam vaktavyah ā
nirapavartitabhudinatulyaih iti, yasmāt nirapavartitabhudinaih

ksiptah suryah tadrk eva bhavati |

[varakuttakarah]

atha kascit suryadine suryam uddisya punar kiyata kalena suryadine
somadine anyasya va grahavaradivase suryah evam bhavisyati iti
prcchati, tat yatha ã nirapavartitabhudinesu
saptahrtavasistesu kuttakarah kriyate | grahavarah yah
nirdistah tasmata ya[t u]ttarah grahavarah tatah prabhrti
ekottaraya vrddhya apacayam parikalpya evam labdham kuttakarah
nirapavartitabhudinanam gunakarah tena gunitesu
nirapavartitabhudinesu nirdistasuryena anitam aharganam
praksipyat jatadivasatulyah kalah adestavyah | tat yatha ã

uddesakah ã

dhanvinyamsah sarakrtisamah satkrtih maurikanam
madhyam bhanoh dasa ca vikalasamyutam varnayanti |
ratreh patuh tanujadivase kena kalena tulyah
bhavi suryah kathaya visadam jivasukrajñavare || 12 ||

budhadivase ayam suryamadhyamah ã 8 25 36 10

anena suryena purvakaranena labdham aharganah 1000 | asmin ahargane
budhavarah | atha kuttakaranayanam | nirapavartitabhudivasesu
saptabhaktesu sesah 4 | jivadinartham kuttakarah ekapanayena
2, anena nirapavartitabhudivasah gunitah jatah 420778, asmin
purvalabdha[harganayute jatah] kalah 421778 | sukradinartham
kuttakare dvau apaniyate | labdham purvavat kalah 842556 |
budhadinartham kuttakarah 7 | kalah ca 1473723 |

evam sarvesu eva divasavaresu yuktya kalah kuttakarah ca
yojyah |

[grahakuttakare visesah]

yah upacayagrah kuttakarah sa ca rasibhagaliptasesesu api
yojyah | tat yatha ã

uddesakah ã

ye bhuktah pavanahrtah sarasibhagah
drsyante divasakarena bhojyaliptah |
tanmatrah visayakrtih sivaih sametah
vacyah ahnam atha ca ganah dvakarah ca || 13 ||

nyasah ã 0 0 36

atra apavartitabhaganan bhagikrtya upacayagrena saha purvavat
kuttakaralabdham aharganah bhagalabdham ca 66027 65077 | atra
bhagalabdham ekena adhikam bhavati | ekam apaniya sese
sastisatratrayabhakte raveh bhaganah rasayah bhagah ca
prativaktavyah |

ekarupopacayena api kuttakaram krtva gantavyagrena anena 126233
trairasikam | anena api labdham aharganah bhagalabdham ca purvalikhitam
eva | evam anyesam api grahanam kuttakarah yojyah |

[varakuttakare visesah]

atha kascit evam prcchati ā suryacandramasau suryadine somadine va
iyatsankhyau | etau punar kiyata kalena etavatsankhyau eva
bhavisyatah iti | atra kuttakarakramah ā kascit rasih
suryasya nirapavartitabhudivasaih bhagam hriyamanah sunyagrah,
candrasya api sunyagrah eva sah | asmin uddesane dvayoh api
sambandhah dvicchedagrasamvargah hi nama sadrsikaranam raseh
| atra ca suryasya nirapavartitadivasah anena 3449 apavartitah labdham
61 | candrasya api tena eva apavartitena jatah 625 | tatah suryasya
niravartitadinanam apavartitacandrdivasah gunakarah | te ca atra
likhitah eva | gunite jatam 131493125 | candrasya api
suryapavartitadivasaih gunite jatam 131493125 | anena rasina
purvavat grahakuttakarah yojyah | tat yatha ā

uddesakah ā

suryacandramasau tuladharanare drstau maya tattvatah
bhagaih dvadasabhih dvayena ca yutau suryasya varodaye |
liptabhih sasisunyasagarayutau jivasya vare punar
sukrasya atha sanaiscarasya divase tulyau kiyadbhih dinaih ||

viliptabhih adhikah arkah vijñeyah bhudharendubhih |
sodhayet ca nisanathat viliptah dhrtisammitah || 14 ||

nyasah ā

[suī] [camī] 6 6 12 2 1 39 17 42

labdham abhyam aharganah ā 7500 |

karanam ā suryacandramasoh nirapavartitadivasanam grahabhaktasesam
1 7 | nirdistavarat uttaratah caturthah jivah, pañcamah
sukrah, sasthah sanaiscarah iti etaih evam tu ime
grahabhaktasesat yathakramena labdhah jivasya 4, sukrasya 5,
sanaiscarasya 6 | ete eva suryacandramasoh nirapa[va]rtitadivasanam
gunakarah | gunakaragunitesu anitaharganam praksipya
kramena ā

[525980000, 657473125, 788966250 divasah]

[grahayoyena kuttakarah]

atha kascit dvau grahau ekatra krtva aharganam prcchati tasya ayam
upayah ā nirdistagrahabhagananam samasitanam bhudivasanam ca
apavartanam krtva kuttakarah karaniyah | tat yatha ā

uddesakah ā

trimsatpañcasasankah samyuktau sasidivakarau drstau |

dinarasim bruhi gatam cakrani ca yani bhktani || 15 ||

nyasah ã 1 5 30

karanam ã candradityabhaganah 62073336 | [yugakudinapramanam ca]
1577917500 | etau dvadasabhagena apavartitau jatau ã 5172778 131493125

mandalasesam ã 12966683 | atra labdham purvavat aharganah
bhagalabdham ca ã 87942886 3459565

ekapanayena api trairasikam krtva sa eva aharganah bhagalabdham ca
labhyate | tat yatha ã

ekarupapacayena api kuttakarah bhagalabdham ca ã 57699692 2269835

[atra api trairasikena purvoktah eva aharganah bhagalabdham ca |]

evam anyesam api samasaprasnesu kuttakarah kalpaniyah,
rasibhagaliptasesesu api | evam eva tricatuhsamasesu api
vistarena vyakhyeyam |

[dvyagrakuttakarah]

atha kascit divasakaramandalasesaparisamaptikale janitam divicaram
uddisya divasakaram divicarabhaganan prcchati, tasya ayam upayah ã
nirdistadivicaram ravibhaganan ca apavartya kuttakarah yojyah
| tat yatha ã

uddesakah ã

bhanumandalasamaptikalajah medinihrdayajah abhilaksitah |
dvitripañcavisayah grhadayah bruhi mandalagatam kujarkayoh
|| 16 ||

nyasah ã 2 15 5

karanam ã kujarkabhaganah ã 2296824 4320000

etau caturvimsatibhih apavartitau ã 95701 180000

mandalasesam idam 37542 | labdham ravikujayoh yatabhaganah
68142, 36229 |

ekapanayena api kuttakaram krtva trairasikena te eva bhaganah
| tat yatha ã ekapanayena kuttakarah bhagalabdham ca ã 174301
92671

evam eva anyesam api grahanam |

athava graham uddisya graham eva anyam [prcchati tatra] api
bhagaharabhajyaparikalpanaya kuttakarah kalpaniyah |

atha mandalapisamaptikalat anyakalasambhutagrahabhaganadin
uddisyate tatha [graha]bhaganat tatra ravibhaganarasibhagaliptan ca
prcchati, tasya api kuttakaranayanasya ayam upayah ã
ravibhaganan khakhasadghanena samgunayya nirdistabhaganaih

saha apavartya kuttakaravidhih iti | tat yatha ā

uddesakah ā

svoccamsakardham adhirudhamahendrasuri
tejovitanavimalikrtadinmukhena |
suryena yatam iha prchati ca asmakiye
vacyam kim asu vada tasya visalabuddhe || 17 ||

nyasah ā 0 3 4 30

karanam ā [gurubhaganah] khakhasadghanagunitasuryabhaganaih
saha apavartite dvinavatyuttarasatabhagena jatau 1897 486000000 sesam
apacayah 127575000 | labdham suryayata[liptah guru]bhaganah ca
78975000, [308] | liptah khakhasadghanabhaktah mandalani
rasayah bhagah liptah ca suryasya 3656 3 0 0

ekapanayana api kuttakaram krtva trairasikena etat eva labhyate |
tat yatha ā ekapanayena api kuttakarah bhagalabdham ca ā 135014233
527

evam rasyadiseseu api yojyam |

[velakuttakarah]

atha velakuttakarah | kascit graham udayakalat anyakalajanitam
pradarsya divasaganam prchati, tasya ayam anayanopayah ā
istakalacchedagunitan nirapavartitabhudivasan krtva purvavat
kuttakaram nispadya istakalacchedabhaktah aharganah | tat
yatha ā

uddesakah ā

ratryardhakalajanitah divasasya bhartuh
istah mrgardhasahitah astacatuskalagrah |
liptatribhagasakaladvitayena yukta
sighram dinadi bhaganan ca vada asmakiyam || 18 ||

nyasah ā 9 15 32 40

karanam ā aharganah caturbhagena anena iti catvari
nirapavartitadinanam gunakarah iti caturbhagena ravibhaganan
apavartya sthapanā 144 210389 | mandalasesam 166876 | labdham
purvavat kuttakarah [7003] | asya caturthamsat aharganah
[1750] |

evam astamayikah uddesakah ā

astadreh tungasrngavyavahitavapusah tigmarasmeh gatanam
cakradyankavalinam kramaganitacayah vismrtah sarvah eva |
drstah liptagrasesah gunaviyadudupah spastah eva
ankarasih
sighram vacyah ganah ahnam kaliyugaganitah mandaladih ca
bhasvan || 19 ||

nyasah ã 288 [x 21600] sesam 103 210389

anena apacayena purvavat aharganasthapana ã 99275

bhagalabdham raveh yatamandalarasibhagaliptah ã 271 9 16 13

ekapanayena kuttakarah bhagalabdham ca 163294 4828291 | anena api
trairasikena purvanitah aharganah bhagalabdham ca mandaladi
[purvoktam eva] |

madhyahnika uddesakah ã

[yat sesam mandalanam kha] navanagacaturbhutasitamsutulyam
madhyam yatasya bhanoh patutaranikaradyotitasamukhasya |
drstam vacyah ganah ahnam gatabhagana[cayah yah api
kalena] siddhah
kuttakaropadesah vidhivat adhigatah yena tena asmakiyah || 20
||

nyasah ã [144 210389] mandalasesam 154790 |

anena mandalasesena purvakaranena labdham [kuttakarah]
bhagalabdham ca 3997 2, kuttakarasya caturthah amsah
aharganah 999 |

ekapanayena kuttakarah bhagalabdham ca 168019 115 | anena
trairasikena purvavat ahargananayanam |

tatha ca yamamuhurtanadivinadikakalesu api yathayogam yuktya
kuttakarah vikalpaniyah | tat yatha ã

uddesakah ã

nadibhih kiyatibhih api upacitat ahnam ganat agatah
tigmamsoh bhaganadikah atra vilayam nitah adhuna vatyaya |
drstah saptatih ekarupasahita sesah kalanam maya
vaktavyah dyuganah gatah ca savituh spastah ca yah
nadikah || 21 ||

liptasesah 71 |

karanam ã apavartitaravibhaganan sastya saha apavartayet |
sastya dvadasabhagena pañca | apavartitaravibhagananam
dvadasabhagena astacatvarimsat | pañcabhih bhudinani [sesam
ca] samgunayya sthapana ã

48 [x 21600] sesam 71 [x 5] 1051945

[esu pañcabhih apavartanam krtva sthapana ã 207360 sei 71] 210389

purvavat kuttakaram krtva labdhah aharganah ã 720, nadyah
3 |

raviyatabhaganadayah ca ã 1 11 19 41

ekapanayanena api kuttakarah bhagalabdham ca ã 59873 59011

purvavat trairasikena aharganah bhagalabdhah ca |

[anapavartitasesena kuttakarah]

atha punar a[na]pavartitam eva sesam uddisya aharganam yatam ca
prcchati, tasya api ayam anayanopayah | bhagaharabhajyagranam
ekena apavartanacchedena apavartanam krtva purvavat kuttakarah
kriyate | atha punar etani bhagaharabhajyagrani chedena ekena
apavartanam na prayacchanti yatha tatha asau uddesakah, tadsah ca
ekah rasih eva na asti atah na aniyate |

uddesakah ā

sarayamavasavah satabhinighna dinakaramandalasesarasisankhya

|

avikrtabhaganaksamadinottha kathaya taya dinarasimandalani ||

22 ||

nyasah ā 4320000 sesam ā 82500 1577917500

ete rasayah ca khakasaramunibhih apavartya kuttakarena
aharganah raviyatamandalani ca ā 199066 545 |

[dvyagrakuttakaravisesah]

atha kascit [dvi]cchedagranyayena ekam aharganam grahayoh
bhinnagrabhaganasesabhyam prcchati, tasya api "adhikagrabhagaharam
chindya" adityanena dvicchedagranayanam |

uddesakah ā

arkangarakavasarah apahrtah kascit dinanam ganah
labdhau [tatra na vedmi] na eva ca tayoh sesau maya laksitau |
yau tau mandalataditau atha punar bhaktau dinaih svaih prthak
tatra aptam maruta apanita[m adhuna ca agre tayoh ti]sthatah ||

arkasya asvinagabdhinagasikhinah sesah kujasya ucyate
bhutasvyanganabhah
astasitakiranaksonisaraksmabhrtah |
etabhyam prthak [arkabhumisutayoh ahnam] ganau tadgatau
dvyagram ca api tayoh viganya ganakah vyavarnayadhvam kramat || 23
||

nyasah ā arkasya 38472 bhaumasya 77180625

etabhyam mandalasesabhyam prthak prthak purvena kramena
kuttakaram krtva aharganau labdhau, arkasya 8833, bhaumasya 640000 |
etabhyam agrabhyam "adhikagrabhagaharam chindyat
unagrabhagaharena" iti anena kuttakarah kriyate |

tatha ca nyasah ā [arkasya] 8833 [bhaumasya] 640000 210389 131493125
agrantaram ā 631167

etayoh chedagrantaranam anena 210389 apavartanam krtva sthapana ā

1 3 625

atra unagracchedah ekah tena sarvah eva rasih suddhyate iti atah
rasiviparyayat vyakhyayate | tatha ca nyasah 1 | atra rupam vidyate |
ayam ekah rasih kena gunitah agrantaram trini apaniya
[sarayamartubhah bhage hrte] suddham bhagam prayacchati iti labdhah
rasih trini rupani | asya viparyastarasikramena eva
sarayamartubhah bhage hrte sesah kuttakarah trikah tena
adhikagracchedena gunitah jatah 1875 | anena adhikagracchedah ayam
131493125 gunitah adhikagrayutah dvicchedagram samjatam
saradrigunanavabdhividvivyadbhutasararasabdhinetrani, ankaih api
nyasah 246550249375 | ayam rasih dvicchedagrah | evam anyena
chedagrena saha kuttakare kriyamane dvicchedagrasamvargah
haratam pratipadyate | dvicchedagrarasibhyam saha kuttakarena
tricchedagranayanam | evam caturagrani api svadhiya abhyuhyani iti |

[kaksyavidhau dvyagrakuttakarah]

atha kaksyaharganesu uddesakah ā

kaksyaprakramasankhyaya ganitayoh sesau ravindvah raveh
dvyastesu adbhikrtabdhikhesubhuvanacchidrendavah kirtitah |
nandangasvinisakarah krtihatah samyak sahasrasya te
dvyagram vacyam aharganah kalibhujah yatah ca tatparyayah || 24
||

nyasah ā 19350444582raveh 49797813966 1269000000 candrasya 3724920000

agrantaram 18081444582 | ete bhagaharagrarasyoh apavartanam
prayacchanti | vedanavartusunyayamaih [20694] apavartya sthapana |
20694 etaih apavartita ravikaksya 2406389 | candrasya api 180000 |
agrantaram apavartitam 873753 |

etaih apavartitabhagaharagrarasibhah kuttakaranyayena
labdhah rasih gunayamadripuskarartusaramgadrinduyamah,
ankaih api 2176563723 | "unagracchedabhajite sesam" iti | ayam
rasih unagracchedena anena 180000 bhaktah sesam [3727] | [anena]
sesena adhikagracchedah [ayam 2406389] gunitah jatah
saptodadhiyamangastanandastasanandavasavah, ankaih api
8958986247 | ayam rasih apavartanena anena [20694 gunitah ja]tah
vasvindudadhibhutarandhragnindurasayamadrinandagnisaradhrtayah,
ankaih api 185397261395418 | ayam eva adhikagrena yutah
[viyadabhrahakha]bdhivasurudrarasangendudadhisaradhrtayah,
ankaih api 185416611840000 | ayam rasih dvicchedagrah | asya
bhudinaih saha apavartita[khakaksyaya bhage krte] aharganah
labhyate | katham punar khakaksyayah bhudinasya ca apavartanam ? ucyate
ā kaksyabhah grahanayane khakaksyayah aharganah
gunakarah, svakaksyabhudinasamvargah bhagaharah iti
khakaksyayah bhudinam ca apavartanena viyadambaratithinandaih
labdham khakaksyayah krtodadhinagasaramagnirasagunendavah,

ankaih api 136335744 | bhudinebhyah api sarabdhiyamadrindavah,
ankaih api 17245 | anena bhudinalabdhenā yathā svagrahakaksya
gunita, aharganapavartitakhakaksyabhyasasya bhagaharah bhavanti
| purvalikhitadvicchedagrāsah
apavartitakhakaksyaharganasamvargah itī svabhagaharabhyam
vibhajya labdham suryacandramasoh yatabhaganah | raveh 3723,
candrasya 49777 | yau atra sesau tayoh mandalasesau yathakramena
nirdistau bhavatah | asmin eva dvicchedagre apavartitakhakaksyaya
vibhakte labdham aharganah rasavisvah satavargagunitah,
ankaih api 1360000 |

uddesakah ā

kaksyakhayatavidhikramena ganitau sesau kalanam kramat
dvyangesu abdhisilimukhatrikanabhobhutendriyasyah raveh |
candrasya ayutataditah krtarasah vasvagnayah suksmakah
vacyah tadbhaganadayah dinaganah dvyagram ca tabhyam tayoh ||
25 ||

nyasah ā raveh 16550354562 49797813966 candrasya api 2438640000
3724920000

atra kuttakarasya yugapat sampadayitum asakyatvat prthak prthak
kuttakarena suryacandramasoh mandalasesau apavartaniyau
svacchedabhyam "adhikagrabhagaharam chindyat unagrabhagaharena" itī
anena kramena aharganayanam | tat yathā ā raveh sesabhagaharau
apavartitau sadbhih ā 2758392427 8299635661 etabhyam
apavartitasesabhagaharabhyam kuttakarah cintyate | tatra
bhagasesam sastya sangunayya anena eva apavartitabhagaharena
bhagam hrtva raveh liptah labhyante, liptasesah ca atiricyate |
sa likhitah eva | tatra idam cintyate ā sastih kena gunita
liptasesam apāniya apavartitabhagaharasya suddham bhagam dasyati itī
| evam bhagasesah upalabhyate | sa ca 7377318041 | athava sastih
kena gunita ekam apāniya sadbhih apavartitabhagaharena hrta
suddham bhagam dasyati itī ekapanayanakuttakaram api āniya tena
bhagasesanayanam liptanayanam ca | ekarupapanayanena kuttakarah
bhagalabdham ca ā 8161308400 [59]

anena kuttakarena purvalikhitah bhagasesah labhyate | tatah
punar api tena bhagasesena trimsata ca kuttakarah kriyate |
trimsat kena gunita bhagasesam apa[niya] sadbhih
apavartitabhagaharasya suddham bhagam dasyati itī rasisesah
upalabhyate | sa ca 5502346520 | evam punar api anena kuttakarah
kriyate | dvadasa kena gunita rasisesam apāniya tasya eva
sadbhih apavartitabhagaharasya suddham bhagam dasyati itī
mandalasesah upalabhyate | sa ca 3225074097 | ayam
apavartitabhagaharabhajyabhyam utpannah itī sadbhih gunitah
pragupanyastoddesakamandalasesah bhavati itī sah purvalikhitah
eva | ekapanayanena [kuttakarah] bhagalabdham ca 7607999356 |

bhagalabdhaih prthak prthak rasibhagaliptanayanam | [11]

evam candrasya api sesabhagahararasi kramena
ayutagunitastottarasatena apavartya sthapanã 2258 3449

abhyam kramena kuttakarah purvavat | sastya ca
bhagasesah labhyate, sa ca 2222 | ekapanayanena api kuttakarah
bhagalabdham ca 1782 31 | punar api bhagasesapanayanena trimsata ca
kuttakaram krtva rasisesah labhyate | sa ca 304 |
ekapanayanena api kuttakarah bhagalabdham ca 115 1 | tatah punar
api rasisesapanayanena dvadasanam ca kuttakaram krtva
mandalasesah labhyate, sa ca 1175 | ekapanayanena api
kuttakarah bhagalabdham ca 2012 7 |

atra ca anitah mandalasesah eva astottarasatena
ayutagunitena abhyastah pragupanyastoddesakamandalasesah
bhavati "candrasya ayutataditah krtarasah" iti adi purvalikhita
eva |

evam mandalasesau suryacandramasoh avagamyã "adhikagrabhagaharam
chindyat unagrabhagaharena" iti anena purvakramena gatamandalani
aharganah ca purvalikhitah eva | athava yah asau
purvamandalasesarasina anena kramena anitah
khakhasadghanena gunitah svakaksyabhagaharena apahrtah
yathavihitaliptasesarasih iti atah idam vicintya[te ã
khakha]sadghanah kena gunitah suryacandramasoh prthak prthak
abhihitaliptasesam apaniya svakaksyoktabhagaharabhyam apahrtam
prthak suddham bhagam prayacchati iti evam kuttakare krite
suryacandramasoh prthak prthak gatamandalani tayoh
mandalasesarasi ca labhyete | tani mandalani
mandalasesarasi ca purvalikhitah eva |

[kaksyavidhau tryagrakuttakarah]

evam tryagrakuttakarah api viganyate | tat yatha ã

uddesakah ã

tigmamsoh gaganagnidasragaganam suryabdhiramesavah
ramangabdhiviyatkrsanudahanah sesah smrtah mandalah

|
indoh ambarasunyavedagaganam ramabdhidasradvikam
randhradryambarasaptabhutayamalah sesah guroh ucyate ||

vyomabhrabdhisararthasaptagirayah vasvankasatsatkaka
bhutendvankarasagnidrstanicayah kaksyabhidhanat ayam |
tryagraharganamandalani vidhiva[t vacyani] tatsankhyaya
kuttakaravicitrata parigata yadi asmakoktakramat || 26 ||

nyasah ã raveh 330463534120230 472332265467510 candrasya 25707922430400
35330866200000 guroh 3691566987755400 5602254071175000

atra etayoh [ravicandra]grayoh antaram
vyomagnivasunavastadrarasasarabhutadri-krtambaragnayah,
ankaih api 304755611689830 |

[bhagaharagra]nam sunyankasarayamavasudasraranavendubhih
apavartanam, ankaih api 196282590 | anena apavartite raveh
navastagnirasambarabdhiyamah, ankaih api 2406389; candrasya
sunyambarakasaviyadastendavah, ankaih api 180000; agrantaram
apavartitam 1552637 |

etabhyam apavartitabhagaharabhyam apavartitagrantarena
kuttakarah labdhah

svarangadriramangarasadrirasavasulokah, ankaih api 3867663767 |
ayam unagrachedena apavartitena apahrtah san avisistah
svarangadridahanah 3767 | ayam apavartitadhikagrabhagaharena
gunitah bhuyah ca apavartitena

sunyankasarayamavasudasraranavendubhih [gunitah] adhikagrena
yutah jatah dvicchedagrarah

sÅ«nyÄ•mbarodadhiviyadagniyamÄ•kÄ•Ä•aÄ•araÄ•arÄ•driÄ•Ä•«nyendurasÄ•mbarÄ•á¹...gÄ•á¹
kadri-svarendavah, ankaih api 1779606107550230400 | asya

dvicchedagrasya trtiyacchedagrena saha kuttakare kriyamane
nivrttakarmacchedayoh abhyasah chedah bhavati

yamarasendumunisasarvirasadrijaladhisara-munirupadahanadrisunyast
ambaranavamunivasvangastayah, ankaih api nyasah ã

16687908073175476257162000000 | atra upanyastatrtiyacchedena
adhikagrachedasya bhagah tatra sunyam avasisyate | tat eva sunyam

kuttakarah iti purvanispannam dvicchedagram tryagram tat
purvalikhitam evam | tasya khakaksyotpannayojananam eva ankarasinah

anena akasodadhivasurupasikhisaraktam anulokankaravibhagah
1293144531840 | labdham aharganah saravasurupangadrivisvah

1376185 |

evam ayam kuttakaravidhih vicintyamanah
mahodadhijalataranavadaprameyah iti viramyate |

[ekapacayena kuttakaralabdhhi]

ete grahakuttakarah slokaih api upanibadhyante | tat yatha ã

bhaskaradisariraya bhaskarayutatejase |

jagadutpattisamharahetave sambhave namah || 1 ||

kuttakarah ca labhah ca dvandvatah bhaganat itah |

nirdisyate kramat atra tadvidam pritaye maya || 2 ||

[suryasya]

tigmamsoh [nayana]nabhorasabdhinandah [94602]

tat labdham bhaganabhavam navesudasrah [259] |

rasinam vasunagakham gunah sivah ca [113078]

labhah syat sarasasinah adriramasankhya [3715] || 3 ||

ramadrinaganavabhuta[59873]samamsakasya
labdhah [atra rudra]viyadankasarah [59011] pradistah |
laptah adrivedarasarupamatangagajah [81647] adhah
rupankadasrabhujagadvikanagavedah [4828291] || 4 ||

ekadirandhrakharasah tu [60971] vili[ptikanam
sañjatam eva] gunakaram atah atra labdham |
sitamsurandhrakrtabanagunagnisatka-
candrasvi[216335491]sankhyam anu tasya ca tatparanam || 5 ||

dasranaga[munivedapayodhirupa 144782 m] atra gunakaram usanti |
rupanandajaladhindunagangadvidvinagaviyadagni[30822671491]m adhah ca ||
6 ||

sadvimsatih jaladhirandhra[9426]samanasankhyah
jñeyah [prataparabhavah] gunakararasih |
sitamsurandhramanunandasasankadasra-
vyomabdhisunyaravayah [120402191491] khalu tatra labdham || 7 ||

ekah eva smrtah chedah cakradinam vivasvatah |
prataparantama[nanam] khambaresumahibhrtah [7500] || 8 ||

[candrasya]

sitarasmi[bhaganaih] prakuttite
saptaramavasusatsvaradrayah [776837] |
labdharasinicayah vyavasthitah
puskaragnikrtanagabahavah [28433] || 9 ||

rasitah api rasadasratapasa
vyomavedagaganasvinah [2040726] gunah |
tatra labdhanicayah vikathyate
rudravahnirasanandapannagah [896311] || 10 ||

candrasuryagaganabdhipavakah [340121]
bhagasesagunakarasamjñitah |
bhutabanasaracandrakuñjarah
sagarambunivahah ca [4481555] labdhakah || 11 ||

nagabanasivadasra[21158]sammitah
liptikasu viganayya kirtyate |
nandarudragirayah asvibhudharah
[astayah atra 16727119] ganitena labhyate || 12 ||

vedavisvarasarupa [16134] sammitam
sitarasmivikalasamudbhavah |
banarupagunasakrapavakah
bhutasatkamunayah [765314315] parah smrtah || 13 ||

tatparesu dhrtibhutasatkakah [6518]
nirdisanti gunakarasankhyaya |
rksanandasasiramakuñjara-

vyomabanasaradhartavah [18550831927] aparah || 14 ||

tatparesu paratah ca kirtitah
ramanandayamadasrakah [2293] kramat |
rudrabanagiridasrasagarah
bhutasatkatithinandavikramah [391565427511] || 15 ||

amsat arabhya sitamsoh pañca [5] pañca [5] gunah parah |
chedah kalpyah kramat atra dantasaila[732]samanvitah || 16 ||

[candroccasya]

nandarsinagagarasah rasasta-
praleyarasmyadri[718667879]samanasankhyah |
inducca[kasya gunakah atra] bhacakradrstah
candrangalokayamadasrayamah ca [222361] labdhah || 17 ||

abdhisu[dasrasvinabhah yamendu-]
satka[61202254]pramanah gunakararasih |
labdhah adrilokasvinagasvidasrah [227237]
rasikramat atra viganyamanah || 18 ||

vedastabanangarasah navasta-
praleyarasmi[18966584]kramasankhyaya uktah |
amsakramat agniyamangasurya-
sitamsudasrah [2112623] ganitena labdhah || 19 ||

liptagatah dantanabhodrinaga-
vyomesavah [5087032] asmin gunakararasih |
naksatrasatparvatanandarandhra-
lokagni[33997627]sankhyah kathitah atra labdhah || 20 ||

viliptikayah sasisaptadanta-
ksonidharah [73271] syuh gunakarasankhya |
lokangadinnagakrsanunandah
dasranvitah [29381063] labham usanti tajjñah || 21 ||

astangadhatriidhararamananda[93768]-
sankhyasamanah atra hi tatparottham |
tanmatranandagnisasankarupa-
vyomangabanasviyamah ca [2256011395] labdhah || 22 ||

pratatpa[rayah] kramasah abdhisaila-
vasvankasatkendu[169874]samanasankhyah |
labdhah ca rudrastasasankaloka-
sunyesudasrasvisarabdhidasrah [245225031811] || 23 ||

rasyadinam kramat [atra chedah kalpyah yathoktavat] |
dvadasah [12] ca tatah pañca [5] [pañca 5 yavat tu] tatparam || 24 ||

[candrapatasya]

saptadricandranganabhongabana-

dasranga[625606177]sankhyam gunakaram ahuh |
[labhah ca patasya] ganesu samyak
dasrasvasunyavapramanah [92072] || 25 ||

sitamsusunyabdihkrasanusatka-
pañcesurudram [115563401] pravadanti tajjñah |
tricchidrasunyabdhinabhah yamah ca [204093]
labhah [atra] rasikramasamprabhutah || 26 ||

sitamsusaptangakrsanuveda-
satlokadasrah [23643671] gunakarabhutah |
himamsunandangayamesusuryah [1252691]
labhah anu bhagakramasankhyayoktam || 27 ||

astesuvasvindusadekavedah [4161858]
proktah kalanam gunakarasamkhyah |
pañcagnidasrambaralokadasra-
visvaih [13230235] samanam pravadanti labdham || 28 ||

vedankabhubhrdyamasaptanagah [872794]
rasiviliptagunakarayuktya |
labdhah kramena atra nagambarasta-
dasradrivedangarasendavah [166472807] syuh || 29 ||

yah tatparebhyah gunakararasih
vasvangasatsaptakrsanavah [37668] atra |
labdhah api saptambarabana[sapta]-
saptambarendvagnikrta[431077507]pramanah || 30 ||

nandagninandavasusatkasasanka[168939]sankhyam
pratataranam pravadanti gunyam |
ekadribanadrinavesucandra-
sunyambarasti sasinah ca [116001597571] labdhah || 31 ||

bhagananam dvika[2]chedah rasinam dvadasa [12] ucyate |
amsadinicayanam tu pañcakah [5] kathyate budhah || 32 ||

[bhaumasya]

bhaumasya visvarkadigastayah [16101213] syuh
bhaparyayanam gunakarajatah |
labdhah atra saptagnisamudraloka-
dasra[23437] pramanam kathitam kramena || 33 ||

nandabdhisunyesusasankadasra-
vedagnayah [34215049] asmin gunakaramanam |
rasikramat lokakrtangasapta-
nandesavah [597643] labdhicayam niruktam || 34 ||

bhagapramanam krtasunyaveda-
nandenduvisvam [1319404] pravadanti gunyam |
labdhasya candrankakrsanucandra-

cchidranga[691391]tulya vihita atra sankhya || 35 ||

[laiptah tu] dasrankasasankaloka-
sannagarupani [1863192] gunah gunajñaih |
drsta atra labdhah tu sasankaloka-
[saptambarastesu] gajesu [58580731] tulyam || 36 ||

viliptikanam rasasatkadasra-
pañcesurupani [155266] gunah pratitah |
labhah sararthangakrsanusunya-
randhrasvinandadvika[292903655]tulyam ahuh || 37 ||

lokangadasrastadhrti[188263]pramanam gunyam kramat
tatparasankhyaya asmin |
banagnisatsaptanagambaranka-
banagnisatsaptanagambaranka-
sunnyagnisitamsumamah ca [21309077635] labdhah || 38 ||

dasrasvisaptastakrta[48722]pramanam
pratatparanam nicayah gunasya |
rupesusatkagninabhosviveda-
vasvastasunyagnigunah ca [330884203651] labdhah || 39 ||

mandalanam grhanam ca chedah dvadasakah [12] smrtah |
pañca [5] pañca [5] paresam tu bhagadinam iti sthitih || 40 ||

[budhasighroccasya]

angadridasraksiti[bhrdgajesu-
lokasvi 23587276 sankhyam sasi]jasya gunyah |
bhaparyayanam navasuryanaga-
saddasra[268129]sankhyam kramasah ca labdhah || 41 ||

rasikrame[na anka]sasankanaga-
sannandanagesusamah [5896819] gunah syat |
saptastalokabdhinabhassanaga[804387]-
nirdistasamkhyah vidhivat ca labdhah || 42 ||

bhagesu vedasvisamudrananda-
banastacandran [1859424] gunakaram ahuh |
chidragnilokankanabhah angasaila[7609339]-
samkhyapramanam khalu tatra labdham || 43 ||

siddham kalanam yamabanananda-
vedesucandran [154952] gunakaram ahuh |
labhah sarankangarasabdhisunya-
vasvagni[38046695]sankhyah ganakaih niruktah || 44 ||

rasih viliptagunakarasmjñah
dasradricandragnitithi[153172]pramanam |
nandadricandrastagirisusatka-
bhutasvidasra [2256578179] vidhina atra labdhah || 45 ||

uktah gunah tatparasankhyaya atra
purnankasamskaradhrtim [184890] vadanti |
candrankasunyesurasabdhicandra-
lokabdhilokasti[163431465091]samah ca labhah || 46 ||

satsaptadasrastanabhah sarupam [108276]
pratatparanam gunana atha labdham |
candrankavasvesusadekadasra-
satpañcadasrabdhisiloccaya arthan [5742562165891] || 47 ||

vimsatih [20] ca tatha sastih [60] chedah mandalarasijah
|
bhagadinam kramat pañca [5] pravadanti manisinah || 48 ||

[guroh]

astau gunavyomakrsanubhuta-
sunyangasaila [76053038] gunajah samuhah |
pañcesubhutadrisudhamayukhah [17555]
labdhah guroh syat bhaganakramena || 49 ||

vedadridasragnisarasvinaga-
dasra [28253274] gunah rasividhanadrstah |
labdhah ankatattvasthanaga[78259]pramanah
nirucyate asmin ganitatprasiddheh || 50 ||

nandadrivasvastanabhah adriveda [4708879]
rasih gunakhyah khalu bhagajatah |
bhutankatigmamsunavagni[391295]tulyam
labhapramanam pravadanti tajjñah || 51 ||

saptendusailambaralokanagan [830717]
liptakramat gunyam usanti tajjñah |
nandendudhrtyabdhisasankaveda [4141819]
labhah kalanam kathitah viganya || 52 ||

viliptikanam sasisatkanaga
dasrastasadbhah [682861] gunakarajatam |
rupankanandadrinagasviveda-
sunyasvinah [204277991] asmin pravadanti labdham || 53 ||

dantanganandadrisudhamayukha[179632]-
sankhyah gunah ca atra hi tatparanam |
saptambaradryastiyamabdhidasran
dantaih sametan [3224216707] kathayanti labdham || 54 ||

ekagniramesudhrti[185331]pramanam
pratatparanam gunaja atra labdham |
rupadrisitamsunagastaveda-
vyomankatanmatranavankacandrah [199590487171] || 55 ||

mandalanam ca rasinam chedah dvadasakah [12] smrtah |

bhagaliptadirasinam chedah pañca eva [5] kathyate || 56 ||

[sukrasighroccasya]

nandabdhisunyangakrtabhrasunya-
saila [70046049] bhriguccasya gunah gananam |
labhah abdhiramadrivagni[311734]tulyah
sankhyavidhanakramasankhyaya uktam || 57 ||

paksesuvedambaracandrasaila-
nagagnayah [38710452] rasigunah pradistah |
labdhah nisanathahutasanagni-
sailangasunya visamah [2067331] samuhah || 58 ||

dasrapaganathasilocayendu-
[sarabdhisat 6451742 sankhya]samah amsagunyah |
tanmatrabhutangarasagniloka-
vyomendavah [10336655] rasih atha atra labdhah || 59 ||

angangapaksodadhicandrasakra [1414266]
rasih kalanam gunakarajatah |
[sasanka]lokankasasankabana-
cchidresulokendu[135951931]samah atra labhah || 60 ||

astasinagagnikrtanga[643828]tulyam
prahuh gunakhyam vikalsu jatam |
labdhah ca rupadrivivasvadagni-
vedagnisitamsunagagnayah [3713431271] syuh || 61 ||

sankhyakramat tatpararasigunyah
paksastabhubhrddahanarka[123782]sankhyah |
lokastapaksankayamesusatka-
ramastapaksabdhi[42836529283]samah atra labhah || 62 ||

pratatanam gunakararasih
angaksamabhrdgagananka[9076]sankhyah |
rupesuvavangasadadripaksa-
pañcabdhinagan dhrtikam ca [188452766851] labdhah || 63 ||

mandalanam sarasinam chedah dvadasakah [12] smrtah |
sakaripujyabhagadeh pañca [5] pañca eva [5] kathyate || 64 ||

[saneh]

rudrasvi[bhutanganabhognirudra 113065211]
gu[nah pradi]stah bhaganesu tajjñaih |
tigmadyuteh atmajalabdharasih
dasrabhrabanambaratrinathah [10502] || 65 ||

vedastabhutankakrsanurupa-
candrartavah [61139584] asmin gunakararasih |
rasikramat labdhasamah tu sankhyah
saptabdhicandratarasa [68147] niruktah || 66 ||

chidragnicandrangasarankanaga-
praleyarasmi[18956139]prabhavah gunakhyah |
amsavadheh agnirasastaloka-
ramartavah [633863] labhabhavah samuhah || 67 ||

saptabdhisailodadhisatkadasran [264747]
drstah samuhah gunakarajanma |
liptakramat atra viganyamanah
ramangarudragnisarah [531163] ca labhah || 68 ||

sitamsudasrambararudranaga [811021]
rasih viliptaprabhavah gunasya |
saptastanetrakayamangasapta-
nanda[97629287]pramana vihita atra labdhih || 69 ||

nirdisyate tatpararasigunyah
suryagnisunyanka[nisadhinathah 190312] |
labhah adrisunyesu[saranga]bhuta-
vedadriramamrtasanmayukhah [1374565507] || 70 ||

pratatparanam navasunjabana-
bhutastacandra [185509] gunana atha labhah |
rudrasvivedankasamudrapaksa-
cchidragnisunyam phanibhrtsametam [80392494211] || 71 ||

catuskah [4] bhaganacchedah rasinam dvadasa eva [12] ca |
chedah kramena pañca [5] uktah saurasya lavatah sphutah || 72 ||

[candrakendrasya]

agnisunandagnisasankasurya-
vedagnayah [341213953] syuh bhaganotthagunyah |
sitamsukendrasya gunankarupa-
ramastalokarka[12383193]samah ca labdhah || 73 ||

tadrasitah ramanabhah adrisapta-
dasrasvivasvadri[78227703]samah gunah syat |
labdhah asvinagambarapannaganga-
sunnyabdhirama [34068082] ganakaih niruktah || 74 ||

ramangadasradribhujangacandra-
satkasvi[26187263]sankhyah amsakajah gunah syat |
rupangasaptesugunendudasra-
vedagni[342135761]sankhyam pravadanti labdham || 75 ||

liptagatah asmin gunakararasih
vedasvinagagninagagnivedah [4373824[|
pañcenduramasviguna[nganaga-
netrabdhi]lokah [3428632315] khalu tatra labdhah || 76 ||

viliptikanam gunakararasih
saptagninagagnisasanka[13837]tulyah |

nandadrinagasvarasunyanaga-
sunyesusat[650807879]tulyakam atra labdham || 77 ||

drstah gunah tatpararasilabdah
sunyastanagagniravi[123880]pramanam |
rudrambaradryangakrtagnirandhra-
banankavedah sagunah ca [34959346011] labdhah || 78 ||

pratatparanam jinavahnidasra-
sakra [142324] gunah tatra [tu] labdharasih |
rupesudasrankavasusvarasvi-
nagesunagankanabhah jinah ca [24098582789251] || 79 ||

chedah apavartakah jñeyah rasinam dvadasatmakah [12] |
bhagadinam kramat chedah pañca [5] drstah kramat budhah
|| 80 ||

[adhidivasasya]

randhrasunyesudasradrisatka[672509]tulyah adhikah gunah |
labdharasih kramat vyom[saptana]ambaradasrakah [20670] || 81 ||

[avamadivasasya]

candragnyambarasaptabdhiyamasatkah [6247031] avamah gunah |
labdhah api navavedadrisailarandhrani [97749] kirtyate || 82 ||

[suryapakramasya]

apakramasya saptabdhipuskarani [347] gunah kramat |
labdharasih kramat drstah [rupaveda]nisakarah [141] || 83 ||

[adhimasasya]

yugadhimasaih municandraloka-
vyomambarakah dhrtayah ca [18900317] drstah |
gunyah atra labdhah api sarastasunya-
navendavah [19085] asmin bhaganesu nityam || 84 ||

sitamsurandhragninabhahsivasvi-
suryaih [122110391] samanah gunakararasih |
lokabdhisannandamunindra[1479643]sankhyah
labdhah atra rasih khalu rasijatah || 85 ||

rasagnivasvabdhikrsanusapta-
vedasvinah [24734836] syuh gunakararasih |
rupesubhutaikanavankanaga [8991551]
labdhah kramena amsakakarmasiddhah || 86 ||

vasvadrivedendragajagni[3814478]sankhyah
liptasu drstah gunakararasih |
nandendunagadrinavaikaloka-
naga[83197819]pramanam pravadanti labdham || 87 ||

nandabdhīpañcasvīmanu[142549]pramanam
drstah vilīptagunakarāsiddhīh |
rudradrīsamskarasārangānaga-
prāleyarasmīm [186548711] pravādanti labham || 88 ||

sankhya [gunasya] api ca tatparanam
rasa nabhah angabdhikrsanucandrah [134606] |
lokastāsannandakrsanudasra-
cchidrāngābanah sadīśah ca [10569239683] labdhah || 89 ||

pratātparebhyah arkakrtagninanda[93412]-
rasīh nīrūktah gunakarajatah |
ekagnībhutastā[tribhūpa]naga-
vyomabhavedabdhī[440081638531]samah atra labhah || 90 ||

bhāganānam sarasīnam dvādasa [12] eva apavartakah |
pañca [5] pañca eva [5] sesanam chedah asmin apavartane || 91 ||

iti bhaskarasya krtau aryabhatatantrabhasye ganitapadah
samptah ||

kalakriyapadah

[mangalacaranam]

suryendukhagnīmarudapksitīdiksitakhyam
murtyastakam sakalalokahītarthabhavam |
yah abhut svayam hī karunatanuh aprameyah
tasmaī namah tribhuvanasthītaye sīvaya ||

[kalavibhagah ksetravibhagah ca]

atha ganitānantaram kalakriyā prastuyate | atha kah kalah, ka va
kriyā? atra kecī vadanti ā "kriyavyatīrīktah kalah" | apare ā "kriyā
kalah" iti | kriyavyatīrīktah astu kalah [kriyā va], kim etena |
asmakam tu sūryacandramasoh yah parah viprakarsah sah
ardhamasah | yah ca tayoh sannīkarsah sa masah | evam dvādasa
masah samvatsarah īti adī kalah | kriyā vyaparāh | kalasya
kriyā kalakriyā | kalaparījñānārthā kriyā īti yavat | sa ca kriyā
gatīh | taya kriyāyā kalah jñāyate īti etat pratīpadayīsyatī | tat
yathā ā

varsam dvādasamasah trīmsaddīvasah bhavet sa masah tu |
sastīh nadyah dīvasah sastīh ca vīnadīkā nādī ||
1 ||

varsam abdah samah samvatsarah īti paryayah | ayam
varsasabdah napumsakalingah samayam vartate | tasya varsasya
pramanam dvādasa masah | dvau ca dasa ca dvādasa | masah
samvatsarasya sakhah | trīmsaddīvasah bhavet sa masah tu |
trīmsat sankhya | dīvasah dīnānī ahānī īti paryayah | bhavet
syat | sa yah asau masah abhīhitah sah trīmsaddīvasah īti arthah

| sastih nadyah divasah | tasya divasasya ekasya pramanam
sastih nadyah | nadyah ghatikah | sastih ca
vinadika nadi | tasyah nadyah pramanam vinadyah
sastih | vinadyah vighatikah |

atra ucyate ã "varsam dvadasa masah" iti adi na arabdhavyam,
lokaprasiddhatvat | sarvesu eva ayam nyayah lokavedaprasiddhya
angikaraniyah | "varsam dvadasamasah" iti adi vina api
laksanena lokah janite, tatha ca bhrtakebhyah bhuktavetanam
dadati | yadi lokaprasiddham api abhidhiyate tada atra bahu vaktavyam
jayate | "nrsti yojanam", [gitikaí, 7] "scangulah ghahastah na"
[gitikaí, 8] iti atra

yava-sarsapa-yuka-liksa-valagra-ratharenu-trasarenusthulasuksma
paramanunam pramanam vaktavyam | trairasike ca
anekajanapadavyavaharatmika paribhasa vaktavya | atha yadi api
lokaprasiddhih angikriyate tatha api tu "vargaksarani varge"
[gitikaí, 2] iti atra vargavargaksarasvaranirupanam vaktavyam eva |
kutah? lokaprasiddheh | [yadi evam tada] vyakarane
vargavargaksara[svaranirupanam anartha]kam | na esa dosah |
lokah purvacaryah abahyasastranam pranetarah iti uktam |
"vargaksarani varge" [gitikaí, 2] iti atra

vargavargaksarasvaranirupanayam vyakaranam abahyam sastram |
"gurvaksarani sastih vinadika" [kalakriyaí, 2] iti atra
gurvaksaranam laksanam vaktavyam | yadi "varsam dvadasa
masah" iti adi granthah na arabhyate tada etat sarvam lokaprasiddhya
setsyati | tasmāt apratyayanam eva astu | na esa dosah |
anarabhyamanayam asyam paribhasayam savanasya eva manasya ete
bhedah syuh na sauracandranaksatranam, yasmāt savanam eva ekam
manam lokaprasiddham, na sauracandranaksatrani | tat sarvesu eva
manesu iyam eva paribhasa yatha syat iti [sutram arabdhavyam] |

anyatha hi "ravimasebhyah adhikah tu ye candrah" [kalakriyaí, 6]
iti atra ravibhagananam dvadasa gunakarah na labhyeta,
"sasidivasah vijñeyah bhudivasonah tithipralayah"
[kalakriyaí, 6] iti atra sasidivasanam trimsatkah gunakarah na
labhyeta, "sastih nadyah divasah" iti atra api
horasastravirodhena sastih nadyah parikalpitah | anyatha
hi icchaya vibhagah divasasya sakyate parikalpayitum | icchaya vibhage
parikalpyamane kah punar horasastravirodhah? ucyate ã

adyantarasyorudayapramanam dvau dvau muhurttau niyatam pradistau |
iti atra dvinadikah muhurtah vyakhyayate | sa ca nadika
divasasya sastibhagah iti | anyatha parikalpyamane ayam arthah
anyatha syat |

katham punar divasasya sastibhagah sadhyate iti atra abhidhiyate ã
atra kecil bruvate ã "suvarnarajatamranam anyatamam patram
ardhavrttakaram sastipalapaniyadharakam purakam nistravakam va

ghatike" iti | na esa niyamah | yavat palani sastih paniyam
prasravati apuryate va, tavata nadikakalah iti | prajñah tu na
evam iti manyante | katham tarhi? ahoratraprasrutasya paniyasya
sastibhagah ghatikapramanah iti sthulah kalpah,
suksmah tu samayamavanau nirdistakarasya sankoh
ghatikacchayam ankayitva ghatika sadhyate, ghatikachidram ca
chayakalavasat uktya yojayitavyam || 1 ||

gurvaksarani sastih vinadika arksi sat eva va
pranah |
evam kalavibhagah ksetravibhagah tatha bhaganat || 2 ||

gurvaksarani sastih vinadika arksi | guruni ca tani
aksarani ca gurvaksarani, sastih vinadika arksi |
yavata kalena sastih gurvaksarani pathitani tavan kalah
vinadisamjñitah | "gurvaksarani sastih vinadika" iti
anena sarvesam eva saurasavananaksatracandranam mananam
vinadikakalatulyatayam prasaktayam tadviseyanirupanartham aha
ã arksi | katama vinadika gurvaksarani sastih?
arksi, na sesah | rksani naksatrani | naksatrasabdena
naksatram manam parigrhyate | rksanam ayam kalah arksah |
ayam ca kalah vinadikabhidhiyamanah stritvam pratipadyate iti
strilinganirdesena vinadika iti uktam |

sat eva va pranah, pranah ucchvasah,
arksyavinadikayah pramanam | arksyam ca manam
bhacakrabhramanakalam | yatah aha ã "pranena eti kalam bham"
[gitikaí, 6] iti | ucchvasakalena bhacakram kalam paryeti, rksacakram
iti arthah | atra arksi vinadika sat va pranah [tulyah]
| arksibhih vinadikabhih [dasabhih] ekamsakah | atah
jyotiscakrasambandhinah pranah liptasankhyah iti pranaih
jyadikarma pravartate | anyatha hi "[pha cha] kalardhajyah" [giitikaí,
12] iti uktatvat pranaih jyagrahanam na prapnoti | anyat ca ã
samanyena eva "sat va pranah vinadika" it ucyamane
sarvamanam eva vinadikakalasya tulyatapasangah |
avasistanam mananam vinadikayah pramanam nadikayah
sastibhagah eva | na tasyah vinadikayah
avayavapramanabhidhanam kriyate, prayojanabhavat |

gurvaksaresu madhyamavrttigrahanam | "gurvaksarani sastih"
iti atra madhyamayam vrttau sastih gurvaksarani
vinadikakalah iti vaktavyam | anyatha hi tisrsu api vrttisu
avisesena grahanam prapnoti | tat yatha ã drutayam vrttau
sastih gurvaksarani alpena kalena pathyante, bilambitayam
mahata kalena iti, madhyamayam punar na alpena, na mahata kalena | tat
tarhi madhyamavrttigrahanam kartavyam | katham anucyamanam avagamyate?
lokaprasiddheh | tat yatha ã loke anirdistesu karyesu
madhyamapratih | evam atra api ã "masante paksasya ante sa hi akase
dese svam misram vakram kantam vrttam purnam candram sattvat ratrau

te ksutksama pradante svetah prajyah krurah tasmah va ante
harmyasya antah samsuptasya ekante kartavya" | etani sastih
gurvaksarani vinadikakalah | sat eva va pranah |
pranah ucchvasah | te va sat, tasyah eva
arksyavinadikayah kalah | atra api svasthasya asrantasya
nirujasya yoginah pranah parigrhyante | atra api svasthah na
mahata kalena ucchvasiti | evam [a]srantah api | yogi na punar
vyanavasan mahata kalena ucchvasiti | atra truti-trutyavayavadayah
kalavayavah kasmah na ucyante? evam manyante ā tair vyavaharah na
asti iti | vyavahartham ca kalavayavagrahanam iti |

evam kalavibhagah | evam varsamasadivasaghatikapranah
kalavibhagah | kim artham idam abhidhiyate ā "evam kalavibhagah" iti
| nanu ca kalavibhagah nirdistah | evam tasya nirdistasya
grahanam "evam kalavibhagah" iti | asya anabhidhanat sakyate jñatum
yatha aprapañcitapramanah kalavibhagah iti | na esa dosah |
"evam kalavibhagah" evamprakarah kalavibhagah iti arthah |
prakarthe tu vyakhyayamane anye api kalavibhagah parigrhitah
bhavanti | tat yatha ā pañcasamvatsarah yugam, dvadasamasah
samvatsarah, dvau masau rtuh te ca
vasanta-grisma-varsa-sarad-hemanta-sisirakhyah, rtutrayam
ayanam, masardham paksah suklah krsnah ca,
divasaraticaturbhagah yamah, dvinadikah muhurtah, iti evam adi
| ksetravibhagah tatha bhaganat | ksetram bhagolah | tasya
ksetrasya vibhagah | tatha tena eva prakarena | yatha kalasya
vibhagah, ksetrasya api bhaganat | kalasya varsat prabhrti
vibhagah uktah, ksetrasya tu bhaganat prabhrti pravrtteh | tat
yatha ā dvadasarasayah bhaganah, rasih trimsat bhagah,
sastih lipta bhagah, sastih vilipta lipta, sastih
tatpara vilipta iti idrsah | uddesakah ā

bhaganah rasih bhagah kala ca vikala ca tatpara ca eva |
ksetrasya etah samjñah kalavibhagena tulyah syuh ||

[dviyogaparijñanam]

dviyogaparijñanaya aryapurvardham aha ā

bhaganah dvayoh dvayoh ye visesasesah yuge dviyogah te |

bhaganah nirdistah eva grahanam gitikasu | dvayoh dvayoh
iti vipsagrahanam tryadinivrttyartham | ye visesasesah,
dvayoh dvayoh grahayoh bhagananam ye visesasesah
bhaganah tavantah tayoh yuge dviyogah babhuvuh bhavisyanti
va |

atra dvayoh dvayoh bhaganavisesah eva tayoh yogah iti katham
avasiyate, na punar tayoh abhyasah yogah va? ucyate | tat yatha ā
dvau asvau ca parimandalarohe parikalpitau | tatra ekasya kaksya
sastih dhanusam, aparasya trimsat | tau pañcadandagati |

mahati mandale yavat mandalacaturbhagam gacchati tavat alpe
mandale ardhm gacchati | yavat mahati mandale ardhm gacchati tavat
sakalam alpamandalam gacchati | evam yavat mahati mandale ekah
paravartah tavat alpe mandale paravartadvayam, tavati ca tayoh
ekah yogah | evam grahesu api yojyam | yujyate etat yadi grahah
samagatayah | samagatayah grahah iti pratipadayisyati |

uddesakah ā guroh anarakasya ca yuge kiyantah yogah iti |

labdham yogah gagana[jala]darasayamagnirandhrasasankah [1932600] |
evam sarvesam api |

kah punar atra dviyoganam viniyogah? ucyate | yadi caturyugaharganena
istagrahayoh dviyogah labhyante, [tarhi] kaliyataharganena
kiyantah iti labdham samatikrantah dviyogah | sesam gatagantavyam
krtva yugadviyogaih vibhajat | labdham gatagantavyadivasa iti ekah
viniyogah | [sesam sastya sangunya yugadviyogaih vibhajat
labdham ghatyadi] yadi caturyugaharganena istagrahayoh
dviyogah labhyante [tarhi] kaliyataharganena kiyantah iti labdham
samatikrantah dviyogah | sese dvadasadigunite rasyadilabdhih
| taih dviyogarasyadihbih mandagatigraha yuktah
sighragatigraha bhavati | sighragatih ca dviyogarasyadihinah
mandagatih bhavati iti aparah viniyogah | dviyogaih ca rasyadin
aniya tayoh api bhaganasamasena api
bhaganasamasagatabhaganarasycin vidhaya "antarayuktam hinam"
[ganitā, 24] iti anena ekatra ksipet ekatra visodhayet,
ksiptavisodhitayoh ardhm tayoh gatabhaganarasibhagaliptah iti
anyah viniyogah | kuttakaraviniyogah tu pradarsitah eva iti |

[yuge vyatipatasamkhyā]

vyatipatajñānaya aryapascardham aha ā
ravisasinaksatraganah sammisrah ca vyatipatah || 3 ||
naksatranam ganah naksatraganah | naksatrani
asvinyadini | ravih ca sasi ca ravisasi | ravisasinah
naksatraganah candradityabhaganah iti yavat | te ca
rasadahanasikhigunasailakasayamartavah [62073336] | ete
vyatipatah | sammisrah ca vyatipatah | sammisrah
ekikrtah | kena sammisrah? anyasya asrutatvat,
ravisasibhaganah naksatraganaih eva | te eva vyatipatah
dvigunitah iti arthah | te ca dvisailarasartumanukrtaravayah
[124146672] |

atha etau vyatipatau abhihitau dvadasasadrasyatmakau | atra idam
prastavyam ā [kim idam] vyatipatayoh udaharanam ahosvit
laksanam iti? yadi idam udaharanam tada sarvam istam setsyati, tat
astu udaharanam iti | tat yatha ā candradityau sphutikrtau yadi
ekatra dvadasarasayah tada vyatipatah | nanu ca loke
dvadasarasikah vaidhrtah iti prasiddham ? na esah dosah |
samjñakrtah bhedah na phalam prati, yasmāt vyatipatasya

vaidhr̥tasya ca tulyam phalam bhagavadbh̥ih gargadibh̥ih upadistam |
tau eva suryacandramasau sphutau ekatra yadi sadrasayah tada api
vyatipatah |

atha vyatipatasya atitaisyaparijñanartham trairasikam ā yadi
suryacandramasoh sphutabhuktisamasena sastighatikah
labhyante, [tada] anena atitaisyena kiyatya iti labhdam ghatikah
vighatikah ca | athava atitaisyavyatipatakalikau suryacandramasau
jñatum icchati, tada atitaisyena saha trairasikam ā yadi
suryacandramasoh sphutabhuktisamasena suryabhuktih candrabhuktih
va labhyate, [tada] anena atitaisyasuryacandramasoh bhuktisamasena
kim iti bhuktih labhyate | tena rahitau sahita suryacandramasau
vyatipatakalikau | evam sthula vyatipatabhuktih | yatha suksma
bhavati tatha pradarsyate | uktam ca ā

nanayane vyatipatah tulyapakramayoh tayoh |
uddesah tasya cakrardham viksepam ca adhikonakam ||

[mahabhaskariyam, 4.36] iti | suryacandramasau nanayane tulyapakramau
yada bhavatah tada vyatipatah, candrasya viksepasahitah rahitah
va apakramah | asmin kila vyatipatayoge ksiratarusakhavacchede
vigataksirata || 3 ||

[yuge grahoccabicabhaganah]

uccanicaparivartajñanartham aha ā

svoccabhaganah svabhaganaih visesitah svoccanicaparivartah |

svoccabhaganah svabhaganaih visesitah | svakiyam uccam svoccam,
tasya svoccasya bhaganah svoccabhaganah | atra grahanam
uccadvayam, mandoccam sigrhoccam ca | atra katarat uccam parigrhyate?
sigrhoccam iti aha | mandoccasya yadi api gatih abhyupagata tatha api
yugabhaganasya vyavaharah na asti iti sigrhoccabhaganah eva
parigrhyante | svabhaganaih visesitah svoccanicaparivartah |
uccabhagananam svabhagananam ca yah visesah sa
uccanicaparivartah | yasmat nairamsyat yavat nairamsyam tavat
udayastamayavakranuvakrah bhavanti iti uccaparivartah parikalpitaḥ |
ye niramsadvayantare divasah te parivartasya divasah | parivartah
grahah ca yugadau mesaditah pravrttah | minante
sigrabhaganaparismaptih | grahabhogadhikah sigrabhogah
parikalpitaḥ | uccanicaparivartah | uccaparivartah nicaparivartah
ca tavanta eva, yasmat ekasmin niramsadvayantaresu grahasya
uccanicaprapti sambhavatah |

atha kah punar uccah, kah va nicah iti? yatra grahah suksmah
laksyante karnasya mahattvat sa akasapradesah uccasamjñitah |
yatra asau eva grahah mahabimbah laksyate karnasya alpatvat sa
akasapradesah nicasamjñitah iti |

atha parivartaih api uccam kendram va aniyate | katham? yadi

caturyugaharganena ete uccanicaparivartah labhyante, tada
kaliyataharganena kiyantah iti labdham samatikrantah parivartah,
sese dvadasa[digunite] rasyadikah parivartabhogah |
parivartabhogarahitah grahah grahasahitah va parivartabhogah
uccabhogah | uccabhogasahitah parivartabhogah [parivartabhogarahitah
va uccabhogah] grahabhogah | parivartabhogah eva kendrabhogah | anyat
ca dviyogabhihitena samanam |

atha "bhaganah dvayoh dvayoh ye visesasesah yuge dviyogah
te" [kalakriya, 3] iti asyam eva karikayam nanu gatah ayam arthah
kim atra abhidhiyate? uccanicaparivartasamjñartham ayam arambhah |
tatra dviyogamatram eva pratipaditam | atha ca tat dvayoh dvayoh
grahayoh bhaganavisesah iti abhihitah | na
uccagrahabhaganavisesah iti [prthak uktih] |

[asvayujadyah gurvabdah]

guruarsanirupanaya aha ã
gurubhaganah rasigunah asvayujadyah guroh abdah || 4 ||
gurubhaganah rasigunah | guroh bhaganah gurubhaganah,
brhaspatibhaganah iti yavat | rasigunah dvadasagunah iti
yavat | asvayujadyah guroh abdah | asvayuk abdah, adau bhavati
[iti] adyah, asvayuk adyah yesam te asvayujadyah | guroh
abdah guroh samvatsarah iti arthah | te ca
asvayuk-kartika-margasirsa-pausa-magha-phalgunacaitra-vaisakha-jy
estha-asadha-sravana-prausthapadakhya | atra
trairasikam ã yadi caturyugaharganena ete guroh abdah
vasuvasurasakasamunidahanakrtah [4370688] [labhyante, tada]
kaliyataharganena kiyantah iti | labdhah samatikrantah samah |
labdhasu samasu dvadasabhakte, sesah asvayujadyah samah |
katham idam vijñayate asvayujadyah samah iti ? ucyate ã
"asvayujadyah guroh abdah" iti vacanat | nanu tat eva vacanam
asmabhih coditam pariharah api asmabhih ucyate | yasmat yugadau
asvinyam amarapatigururudayasikharisikharamadhirudhah tasmāt
asvayujadyah guroh samah |

uktam ca ã

yasmin udeti naksatre pravastopagatah angirah |
samvatsarah tadrksadibharhaspatyah praganyate ||

iti |

atha vasuvasurasakasamunidahanakrtasankhyaih [4370688] trairasikena
brhaspatih api aniyate | katham? yadi caturyugaharganena
vasuvasvadayah brhaspatirasayah labhyante, [tada]
kaliyataharganena kiyantah iti labdhah rasayah | sese
trimsadadigunite bhagalipat[dayah] | evam idam arthat apannam
bhavati | ye samatikrantah guroh rasayah te samatikrantah guroh
asvayujadyah samvatsarah, sese ca vartamanah iti |

atha vasuvasvadayah guroh samvatsarah iti abhidhiyante | nanu ca
taih yugasamvatsaraih tulyaih bhavitavyam? na iti aha | ye
yugasamvatsarah te sauryena manena drstah, am ca ye guroh
abdah te gurumanena | ttat eva yugam sauryena anumiyamanam
gaganajaladabindume[gha]yamahutasakrta [4320000] sankhyam | tat eva
barhaspatyena vasuvasvadi [4370688] sankhyam | barhaspatyabdam
brhaspateh rasibhogah iti na sauryabarhaspatyau tulyau iti || 4 ||

[sauracandrasavananaksatramanani]

saura-candra-savana-naksatramanapradarsanartham aha ã

ravibhaganah ravyabdah ravisasiyogah bhavanti sasimasah |
ravibhuyogah divasah bhavartah ca api naksatrah || 5 ||

ravibhaganah ravyabdah | raveh bhaganah, ravibhaganah,
ravyabdah, ravivarsani iti yavat | ye eva ravibhaganah te eva
ravyabdah | tatha idam anuktam api gamyate ravirasi-bhaga-lipta
ravimasa-divasa-nadyah iti | yasmat dvadasarasayah bhaganah,
trimsadbhaga rasih, bhagasastyavayavah lipta,
sadrasayah ayanam uttaram daksinam ca makarakuliraditah iti |
katham idam avasiyate makarakuliraditah iti na punar dhanisthadeh
aslesardhat iti, yasmat uktam ã

ardhaslesat sravisthadeh pravrtte daksinottare |
ksemasasyasubhiksakhye tu ayane gharmatejasah || iti |

atra ucyate ã srutyoh bhinnavakyata | sakyate eva tat vaktum,
adrstarthatvat | "srutyarthanusthanaphalasya
sarvasakhapratyayam ekam karma" iti | srutismrtyoh punar bhede ya ca
smrtih pratyaksaviruddha sa parigrhyate | iyam asmakam smrtih
pratyaksavyabharini, yatah pratyaksena eva
uttaradaksinapravrttih makarakarkataditah eva upalaksyate |
katham? yasmat dhanusah ante makaradisthite
vidhvastasesadhvantasamghate bhagavati bhaskare dinamadhyamgate
sarvamadhyahnacchayabhyah mahati madhyahnacchaya laksyate | sa ca
kramena apacyamana makaraditah eva, na sravisthadeh | yat ca
karkatatau sarvamadhyahnacchayabhyah svalpiyasi madhyahnacchaya,
sa ca kramena upacyamana karkataditah eva, na aslesardhat iti
atah pratyaksasiddham ayanam |

athava ayam anyarthaparah eva granthah | karkatadeh
daksinayanam makaradeh ca uttaranam iti etasya abhyupagamat eva
ucyate ã yada bhavagan bhaskarah ardhaslesat daksinam margam
pravartate punar vasvoh caturthamsadim [arthat karkatadim]
parityajyate tada ksemasasyasubhiksah bhavanti | yada ca makaradim
parityajya sravisthadeh uttaram [margam] pratipadyate tada ca
tatphalarthatvam iti | atha ayam vivasvan katham evam pravartate iti? ucyate
ã grahanam dvayi gatih, sankhyanugata autpatiki ca | yada
autpatiki gatih evam prakara bhavati tada ksemasasyasubhiksakhye

ayane [bhavatah] | yada punar karkatamakaradim apraptva eva
daksinottarapravrttinvrtti bhavatah tada aksema asasya
asubhiksa iti etat pradarsayati |

api atra aviditaparamarthah romakah pathanti ā

vasudaivadisarpardhat ayanam munayah jaguh |
mrgakarkyaditah drstam katham tat hi gateh vina ||

iti adigranthena | ksudravidravanopanyasakramena yugabhaganan
ahuh ā

tasmat atra viyadrudrakrtanandadhrtih (1894110) yugam | bhaganan
saptavisvakhyanadityantyotkramat kramat || iti |

atra katham idam ghatate yadi utkramena kramat va punar vasvoh
mesadeh api daksinayanam pravartate na karkatadau eva? tatha ca
varsartuh mesadeh pravarteta [makaradeh] vasantah | tatha ca
kalaviparyasah prasajyeta | evam ca srutyarthah na anusthitah
bhavati | "vasante yajeta", caitravaisakhau vasantah, "madhuh ca
madhavah ca vasantikau rtu" [taittiriyaśamhita, 4.4.11] | tatha ca
"saradi vajapeyena yajet", asvayukkartikau sarat, "isah ca urjah ca
saradau rtu" [taittiriyaśamhita, 4.4.11] iti | idam ca jyotisam
ayanam angam vedasya | tasmat na ayanasya gatih | makarakarkataditah
ayanam iti | sarvasiddhantaguruh acaryalatadevah aha ā

makaradau udagayanam daksinam ayanam ca candrabhavanadau |

iti |

rtuniscayaya aha ā

rtavah sisira-vasanta-grisma-ghanagama-sarad-himagamanah |
makarat rasidvayagatadinakarabhogasthitisamanah ||

iti |

anyat ca ā apakramavrddhih dhanuh mithunante eva iti |
ratridivasayoh mahati vrddhih makarakarkatadau eva, na anyatah eva
iti | pratyaksasiddham idam iti | atah ayanayugabhaganaparikalpana
mudha |

atha idam prastavyam ā sphutagatya parigahyante ahosvit madhyamagatya
iti | yadi madhyamagatya, [tada] yani sauryamanabhihitani prayojanani
tani madhyamagatya prapnuvanti, sphutagatya cesyante | kani punar
tani prayojanani iti? ucyate ā

vayoh murcchanam abhranam utpattih caksusoh balam |
sitosnavarsapraptih ca prasadah salisasya ca ||

sattvanam madalabhah syuh artavah ca api yositam |
phalapuspodgamam ca eva patrankuravirohanam ||

ayanana[m rtunam] ca muhurtanam ca darsanam |

parivesaparidhanam paridhinam tatha eva ca ||

gandharvanagaranam ca tatha indradhanusam api |
ulkanam asaninam ca sandhyayoh vidyutam tatha ||

bhurathabhraninadanam dhisnyanam patanasya ca |
jyotisam varnabhedasya grahanam cestitasya ca ||

agneh ausnyasya saktyoh ca vilayasya udbhavasya ca |
sauram manam vijaniyat pravartakanivartakam ||

iti adi prayojanani |

yadi sphutagatya tat etani prayojanani parigrhitani bhavanti, idam tu
na siddhyati adhikavamanam grahanam | yasmad adhikavamanam grahanam
madhyamena manena | atha katham sphutartham vacanam
madhyamagatipratipattaye bhavisyati | atha madhyamagatipratipattaye
sphutartham katham iti | na esah dosah | "salyartham kulyah
praniyante, tabhyah ca paniam piyate, tasu ca upasprsyate"
[astadhyayi, 1.1.22 patañjalabhāsyam] iti siddham | etat
ubhayagrahanat ubhayam atra parigrhyate iti madhyamagatya sphutagatya
ca | madhyamagatya adhikavamanam grahanam siddham, sphutagatya ca
samhitakarabhihitani prayojanani |

ravisasiyogah bhavanti sasimasah | raveh sasinah ca yogah
ravisasiyogah | bhavanti sasimasah | ye yuge ravisasiyogah
abhihitah te sasimasah | te ca prag yatha siddhyanti tatha
vyakhyatam | sasimasaih sasidivasaghatikah vyakhyatah |
sasimasena kani punar prayojanani?

darsam ca purnamasam ca tathejyadyah kriya bhuvi |
parvanam ca pariñānam tithinam pratyayah tatha ||

prabalyam ausadhinam ca rasanam vyaktih eva ca |
puranam hinata ca indoh tatha eva lavanambhasah ||

garbhanam jivanam ca api tatha api ayanam eva ca |
rahoḥ agamanapratih [ca] aindavam manam asritah ||

evam adini prayojanani |

ravibhuyogah divasah | raveh bhuvah ca yogah ravibhuyogah |
ye yuge ravibhuyogah te yuge bhudivasah | bhudivasah nama raveh
ardhodayat prabhrti punar ardhodayam iti | savanah divasah
bhudivasah iti ucyate | romakaih sa eva bhudivasah ravyudayah iti
samjñitah | kani punar savanamanasya prayojanani?

yajñakalapariñānam yajñesu savanani ca |
vratah diksanakalah ca cudopanayanani ca ||

ayusam ca api nirlekha prayoganam ca vrddhayah |
grahacarapariñānam adesagamanani ca |
yani ca api evam adini sankhyoddistanī tani vai |

savanena eva manena ganyante iti niscayah ||

etani prayojanani |

bhavartah ca api naksatrah | bhanam avartah bhavartah,
bhacakrabhramanani | tat ca bhacakram kim adih iti etat vicaryam | yadi
mesadiah syat [tada] mesadisthe savitari savitrabhacakradyoh
yugapat udayah, dvitiyah punar anudite eva savitari bhacakradyudayah,
na ca bhacakradidvayodayantare sastih nadyah | tatha ca
"pranena iti kalam bham" [gitikaí, 6] iti cakraliptanam
ahoratrghatikapramanaliptanam ca tulyata na upapadyate, yasmat
apurne eva ahoratre bhacakradih udeti | yada punar adityodayah
bhacakradih parigrhyate tada ahoratrapranah
svadesarasyudayapranatulyah | te ca khakhasadghanatulyah |
bhacakraliptah ca tavatyah iti etat upapannam |

anyat ca ã udayalagnavidhih suryat eva pravartate, audayikat ca raveh |
sa cestakale svabhistakaladitya[raseh vicarya]manah
yavat punar udayah iti tavat na antaram vidadhati | tasmad ravyudayah
eva bhacakradih, vyavaharaprasiddhyartham | yadi evam
grahabhuktarasayah ravyakrantarasipradesat eva prapnuvanti? na
esah dosah, "budhahnyajarkodayat ca lankayam" [gitikaí, 4]
iti esam ajadinirupanat | kubhaganah ca yugadyantayoh
ajarkodayat eva pratiparisamaptah iti tesam ca ajadita siddha | te
eva yugabhacakravartah naksatradivasah bhudivasah iti,
divasagrahananuvartanat | ke punar te bhavartah? ye kubhaganah,
"ku nisibunlrskhr" [1582237500] iti gitikasu [gitikaí, 3]
uktah | katham ete kubhaganah bhavartah iti uktah?
bhacakraprativaddhani naksatrani | tasya pravahaksepat aparam disam
asadayanti | naksatrani bhuvam svagatya pranmukham bhramantim iva
pasyanti iti anaya gatyah bhuvah bhagananirdesah | tena uktam ã
"bhavartah ca api naksatrah" iti | anye punar "kva avartah ca api
naksatrah" iti pathanti | tesa pathat eva hi sarvam upapannam |

atha anye punar anyatha varnayanti ã

ddarsat darsah candrah trimsat divasah tu savanah masah |
sauryah arkarasibhogah naksatrah ca indumandalakam ||

[latadevasya krtitah]

darsat darsah candrah iti suryacandramasoh yah parah
sannikarsah sa darsasabdena ucyate, sa ca tayoh yogah |
"ravisasiyogah bhavanti sasimasah" iti tulyam laksanam |
trimsat divasah tu savanah masah iti etat api "ravyudayah
trimsat " iti tulyam | sauryah arkarasibhogah iti "ravibhaganah
ravyabdah", "raveh rasayah api ravimasah" iti etat api tulyam
laksanam | "naksatram ca indumandalakam" iti indoh mandalam
naksatrah masah iti | tatra pratyaham yah candrabhogah sa
tanmasavayavah iti |

naksatrani api vibhajyante | tat yatha ā yah candrabhaganasya
trimsadbhagah sa naksatraḥ divasah | evam
navanaksatradasabhagah naksatraḥ divasah iti etat abhinnaṃ
lakṣaṇam |

asmakam acāryeṇa svatantrantaraviruddhaprakriyapratipadanarthaṃ idam
uktam "bhavartah ca api naksatraḥ" iti | ka ca
svatantrantaraprakriya? "pranena eti kalam bham" [gitikaī, 6] iti,
pranena kalam bham gacchati iti jyotiscakraliptanam
bhavartaprananam ca tulyatve jyaḍayah vidhayah siddhyante, na
anyatha iti iyam prakriya | yesam ca "naksatram ca indumandalakam"
iti lakṣaṇam, tair samhitakarabhihitaprayojanasiddhyartham uktam |
atra ekena lakṣaṇena prayojanasya aparigrahaḥ lakṣanadvayam idam
isyate | katham? tatra avrttiḥ ekasesah iti, bhavartasabdasya
ekasesavyakhyānāt bhavartah ca bhavartah ca, bhavartah |
bhāni jyotiṃsi asvinyādini | tesam avartah bhavartah,
bhāparyayah iti arthah | paryayah ca naksatranam candravīsayah
eva pariḡrhyate, lokavyavaharāt | lokah hi candrakrantaṃ naksatrah
eva vyavaharati | athava anyartham prakṛtam anyartham api bhavati,
"sālyartham kulyah prāniyante, tasya ca upasṛsyate"
[astādhyāyī, 1.1.22, patañjalamahābhāṣyam] iti | athava
"bhavartah ca naksatraḥ" iti ekavācānena siddhe "bhavartah ca
naksatraḥ" iti bahuvācānānirdeśam kurvan acāryah jñāpayati
naksatrasya anekalakṣaṇam iti | athava cakarah atra prayuktah, na
tena atra kascit arthah sadhyate, atha ca prayuktena manyamahe
naksatrasya anekam lakṣaṇam iti | tat ca anekam lakṣaṇam yatha
vyavasthitam tatha vyakhyatam iti atah lakṣanadvayam api
svasiddhantasiddham |

atha naksatrasya manasya kani prayojanani?

samvatsaranam masanam rtunam parvanam tatha |
āyananam ca sarvesam samaptipratipattayah ||

subhasubham ca lokanam manam unmanam eva va |

iti evamādini prayojanani |

atha iyam uktih vagvāgura ksudravidravanapara
naksatramanapradarsitaprayojanair lakṣyate "samvatsaranam
masanam rtunam" iti | samvatsaranam tavat pratipacchedanimittam
naksatram [na] bhavati, yataḥ samvatsarah sastre caitraśuklādeḥ
pravartate | sa ca caitraśuklādeḥ candreṇa upalakṣyate |
samhitakaranam ca brhaspaticare yah samvatsarah brhaspatēḥ
naksatrodāyat pravartate ā

yasmin udeṭi naksatre pravāśopagataḥ āngirah |

iti | masanam api na bhavati | yasmin kṛttikābhīḥ yutaḥ candramah,
asmin mase ardhamase ca iti kartikah masah | sa
candraṇaḥ naksatrayogavīśesah candrah manavīśesah | rtunam

ayananam [ca jñanam] sauryena manena iti pradarsitam eva asmabhih |
tasmāt etat na naksatramanam | yaiḥ "naksatram ca indumandalakam"
iti asya anuvartanāt "bhavartah ca naksatrah" iti asya
sabdārvyākhyāne naikasesabāhuvacanānirdesah [krtah]
"ca"-sabdāt iti budhāih eva viditaparamarthāih mukham āyasitam |
tasmāt āsmakam ācāryena atindriyarthadarsina abhihitam
ācāryārbhatena tat eva naksatramanam | tasmāt "iyam ukthih
vāgvāgura ksudravīdravanāpara naksatramanāpradarsitaprayojanāih
lakṣyate" iti susthu uktaḥ | atha etāni
sāurya-sāvāna-candra-naksatrāni manāni madhyamāgatya pratipaditāni
| tatprayojanartham sphuṭāgatya pratipattavyāni iti pradistam |
ācāryālatadevena tu sphuṭāgatya eva pratipaditāni ā

darsat darsah candrah trimsat divasah tu savānah masah |

iti adigrānthena iti |

atra ca āyam prasnah ā "āvamādhimasakāih vīna dyugānam" iti |
yātāvārsāni masikṛtya vartamanāmasāih sāmyojya trairāsikam ā
yadi yugāravimasāih yugācandramasah labhyante, [tada] etāih
[rāvih] masāih kiyantah candramasah iti, labdham candramasah |
te trimsadgunah vartamanatithiyuktah kāryah | tātah
trairāsikam ā yadi yugācandradivasāih yugāhargānah labhyate [tada]
etāih candradivasāih kim iti, āhargānah labhyate | tātra ekah
praksepah | atha kah ca āsau ekah praksepah? ucyate ā yah āsau
labhyate āhargānah sa atitah | sesah vartamanah | vartamanena
āhargānah bhavati iti ekah praksepah | "tena divakārodupāu" iti
etat uttarātra vakṣyate | tabhyam sphuṭaparvādarsanam iti |

candradityabhyam vīna sphuṭatithyanāyanam | tat yathā ā "[yadi]
yugāhargānena candravārsāni vāsumunigiriyamāvisayakṛtaveda
[4452778] tulyāni labhyante, tada ānena istahargānena kiyanti iti
vārsāni labhyante | sese dvādasa[di]gunite
masa-divāsa-ghatikā-vighatikah ca labhyante | evam madhyamā tithih
bhavati | atha sāsyuccānicāparivartāih trairāsikam ā yadi
yugāhargānena sāsyuccānicāparivartah labhyante, [tada] ānena
istahargānena kiyantah iti, atitah parivartah labhyante |
sese dvādasadigunite rāsyādayah labhyante | trirasirahitam
sāsikendram | tātah phalam sāsbhukthih ca āniyate | phalāsya
dvādasābhih bhāge nādyah vīnādyah ca labhyante | tāvat
madhyamātitthau yathānyāyena rnam dhanam vā kartavyam |
sūryānāyanartham trairāsikam ā yadi yugāhargānena
vāsumunigiriyamādanendu[132778]tulyāni ādhikāvārsāni labhyante, tada
kāliyātahargānena kiyantah iti, vārsa-māsa-divāsa-ghatikah
labhyante | pratirāsitamādhymātitthivārsātibhyah te sōdhyah sesam
rāvīvārsādayah | tebhyah māsvāyam [2] ca āstādāsa [18] ca
divāsan āpāniyā rāvīkendram bhavati | tena phalanāyanam bhaktyānāyanam ca |
phalāsya dvādasābhih bhāge labdhah nādyah vīnādyah ca |
titthau eva rādhanāvītyāsam kuryāt | atha kim iti

rnadhanavyatyasah kriyate? ucyate ā suryasya yat rnam tat titheh
upacayah, dhanam yat tat apacayah iti | evam tithih nispanna bhavati |
tatah idam kriyate ā yadi madhyamabhuktyantarena sastih
nadyah labhyante, [tada] sphutagatyantarena kiyatya iti,
gatyantaranadyah upalabhyante | tabhiih trairasikam ā yadi etabhiih
gatyantaranadikabhiih sastih nadyah labhyante, [tada] anena
tithisesena kiyatya iti tithinadyah vinadyah ca labhyante |
athava trairasikadvayam bhanktva idam karma kriyate |
madhyamabhuktyantarena tithisesam gunayitva sphutabhuktyantarena
bhagasiddham ghatikavighatikah ca | katham punar trairasikadvayam
bhinnam? ucyate ā yadi madhyamabhuktyantarena sastih nadyah
labhyante [tada] sphutabhuktyantarena kiyatya iti ekam trairasikam |
punar ā labdhena phalena yadi sastih nadyah, [tada] anena
tithisesena kiyatya iti | yah purvatrairasike gunakarah sa iha
arthat bhagaharah iti | atha desantaravisesena ca
aksavisesena ca yat phalam upajayate tat api yuktya yojayitavyam iti
|| 5 ||

[adhimasavamadinani] adhimasavamaparijñanaya aha ā

adhimasakah yuge te ravimasebhyah adhikah tu ye candrah |
sasidivasah vijñeyah bhudivasonah tithipralayah || 6 ||

ye ravimasebhyah adhikah candramasah te yuge yuge adhimasah
bhavanti, ye ca bhudivasonah sasidivasah te yuge tithipralayah |
pralayah vinasah | tithinam pralayah tithipralayah |
avamaratrani iti arthah | evam bruvata etat pradarsitam bhavati ā
sauryacandrantaram adhimasabhogah, savamam savanam candram manam iti |
adhikavamayoh madhyamagatya upacayah iti uktam | yadi sphutagatya
syat tada dvitiiyam pravrttayam pratipat trtiya
[ni]vrttipravrtti na stah | adhimasavamaih kim nirvartyate?
aharganah iti aha | na etat asti, vina api adhimasavamaih
aharganasya nirvartitvat | na esah dosah, upayantarvat |
adhimasavamaih vina aharganasya sadhanam pradarsitam | yena ca
adhimasavamaih aharganah labhyate sa upayah pradarsayitavyah | na
etat asti, ekopayatvat | sa ca ayam ca ekah upayah | katham ekopayata?
ye candramasah te sadhikah tesam sadhikatvat sadhikah eva
masarasih labhyate | punar api ca bhudivasonam rahitavamatvat
trairasikena rahitavamah aharganah labhyate | atha kascit
laghukaranartha gunakarat bhagaharam apanayet tasya sesagunite
labdham pratirasitagunye [ksipet] | yadi bhagaharat avasisyate
tatra sesagunite labdham gunyat pratirasitat apaniyam iti esah
ganitanyayah | atha atra gunakaradhikatvat masah ksipyante
bhagaharadhikatvat divasah apaciyante iti ekopayata | tasmāt na
arthah anaya karikaya, tathapi lokavyavahartham adhimasavamanam
upadesah kartavyah | lokah ca adhimasavamaih vyavaharati | uktam ca
ā "karanadhithitam adhimasakam kuryat", "trisatam
sacatuspañcasa[tam a]horatranam karma samvatsarah" iti |

adhimasartham trairasikam ā yadi yugavarsaih masaih va
yugadhimasakah labhyante, tatah yatavarsadibhiih kiyantah iti
adhimasakalabdhih | evam eva avamanam candradivasaih iti |

atra ca ayam prasnah ā "tena divakarodupau" iti aharganena vina
candradityanayanam | tat yatha ā yatavarsesu dvadasagunitesu
gatamasan ksipet | tatah trimsadgunitesu divasan praksipya
trairasikam ā yadi

purnaviyadambarajaladharapayodharayamasaravisayesucandrih
[1555200000] yugasauradivasaih yugadhimasakah labhyante, tatah etaih
divasaih kiyantah iti, labhdam adhimasakah | sese ksepah ucya
ā yadi bhudivasatulyena avamasesena yugadhimasatulyah upacayah
adhimasakasesasya labhyate, tada anena avamasesena kiyān iti | yat
labdham tat adhimasakasese praksipya yugacandramasaih
rasaramagnigutasanatrikrtatrivisayaih [5343336] bhagalabdham
bhagah, sastigunite liptah | trimsagunadhikayutam
divasarasim krtva trairasikam ā yadi yugacandradinaih
yugavamadinani labhyante, tatah etaih kim iti labhdam avamah | sesam
sastya samgunya bhudivasaih
purnambarasaranagasasirandhramunigirivisayarupaih [1577917500]
vibhajet, labdham ghatikah |

atha kim artham adhikavamasesayoh sasimasabhudivasaih bhagah
hriyate? ucya ā yah asau adhimasasesah sa candramasavayavah |
atah tena sacchedena trairasikam ā yadi yugasasimasaih
suryabhaganah labhyante, tatah anena sasimasavayavena kiyantah
iti | tatra sasimasavayavacchedena saha ravibhaganena apavartanam ā
ravibhagananam ravibhaganabhagena ekah gunakarah, chedasya tavat
bhagena sastisatatrāyam | tatra bhaganesu bhagam na prayacchati
iti dvadasa trimsat ca gunakarah | tatra
sastisatatrāyabhagena rupam, tavat bhagena eva chedasya api rupam
eva | sasimasah eva kevalah bhagaharah iti | avamasesah api
bhudinavayavah iti trairasikam ā yadi bhudinaih candradivasah
labhyante, tatah anena bhudivasavayavena candradivasacchedena kim iti |
tatra gunakarabhagaharayoh tulyatvat nasah | sese
sastigune bhudivasabhakte ghatikah iti | atha yatavarsani
bhaganah, masah rasayah, dinani bhagah iti parikalpya
avamasesalabdghatikah ca liptah | ebhyah adhikasesalabdham
visodhayet | sesam madhyamasuryah | tebhya eva
trayodasagunitebhya adhikasesaphalam visodhayet | sesam
madhyamacandrah |

adhimasakaih api avamah aniyante | tat yatha ā
abhistavarsani dinikrtya trairasikam ā [yadi]
yugasuryadivasaih yugadhimasakah labhyante, tatah etaih
abhistasuryadivasaih kiyantah iti, adhimasakah samatikrantah
labhyante, vartamanasya ca sesah | tat etat trairasikam ā yadi
yugadhimasaih yugavamaratra[ni] labhyante tatah etaih

adhimasakaih abhistaih kiyantah iti ganitanyayena
savarnikrtya yugavamaih gunayet | athava
abhistadhimasarasim amsarasim ca prthak prthak yugavamaih
samgunayya amsarasim yugasuryadivasaih vibhajya labhdam upari
ksiptva yugadhimasakaih bhagalabddham abhistakalavamah |
athava trairasikadvayam bhanktva api aniyante ã yadi
yugasuryadivasaih adhimasakah labhyante, tatah abhistadivasaih
kiyantah iti ekam trairasikam | tatah punar api ã yadi
yugadhimasakaih yugavamah labhyante, tatah
trairasikanyayaviracitarasyutpannadhimasakaih kiyantah iti | tatra
purvatrairasike yugadhimasakah gunakarah dvitiyatrairasike
bhagaharah | atah gunakarabhagaharayoh tulyatvat nastayoh
abhistadivasanam yugavamah gunakarah, yugasuryadivasah
bhagaharah, labddham abhistavamah |

abhistavamaih api adhimasakah aniyante |
abhistavarsamasesu tat utpannadhimasakan praksipya trimsata
samgunayya trairasikadvayam kriyate ã yadi yugasasidivasaih
yugavamah labhyante tatah abhistasasidivasaih kiyantah iti
avamah | evam ekam trairasikam | punar ã yadi yugavamaih
yugadhimasakah labhyante tatah abhistavamaih
purvatrairasikaviracitaih kiyantah iti, adhimasakah labhyante |
tatra purvatrairasike yugavamah gunakarah, iha bhagaharah |
atah gunakarabhagaharayoh tulyatvat nastayoh
yugasasidivasah bhagaharah, yugadhimasakah gunakarah, phalam
abhistadhimasakah | purvatvat va prthak prthak trairasikena
api karaniyam |

atha adhimasakaih abhistagrahah api aniyante | tat yatha ã yadi
yugadhimasakaih abhistagrahabhaganah labhyante, tada
istadhimasakaih kiyantah iti | adhimasapatanakalavadheh
abhistagrahabhaganadayah labhyante | asau eva abhistakalikalah
kriyate | katham? adhimasaka[sesena] abhistagrahabhaganan
samgunayya adhimasakaih gunitasasidivasaih vibhajet | tatra
bhaganadayah labhyante, [te] purvalabddhadhimagrahahbhaganesu
yojyante tada avamaratrapatanakalavadheh bhavati | tatah punar api
avamaratrasesam sastya samgunayya sasidivasaih eva vibhajet
| labddham ghatikah | tatah ã yadi sastighatikabhih
abhistagrahabhuktih labhyate, [tada] abhih ghatikabhih kim iti
| labddham purvasthapite grahe dadyat, abhistadivasasya
udayakalavadheh [grahah] bhavati |

atha avamaih api ã yadi yuga[vamaih abhistagrahabhaganah]
labhyante tatah yatavamaih kiyantah iti |
avamaratraparisamaptikalavadheh abhistagrahabhaganadayah
labhyante, tatah istadivasaudayikah kriyate | katham?
avamaratrasesena abhistagrahabhaganan samgunayya
yugavamabhudivasasamvargena vibhajet | labddham bhaganadayah | tan

purvalabdhabhaganadisu ksipet | audayikah grahah bhavati |

atra ayam prasnah ā

avamaih yah adhikamasan avamani ca yah karoti adhikamasaih|
tabhyam va graham istam tasya aham sisyatam yami || 1 ||

iti| adhimasavamasesabhyam suryacandramasoh anayanam uktam |
idanim avamasesat eva sarvagrahanayanam abhidhasyate | tat yatha ā
yugavamam sastya apavartya sthapana ā 418043 | atha adityanayane
tavat ete apavartitavamah kena gunitah apavartitadityabhaganan
apaniya tat apavartitabhudinanam tu suddham bhagam dadyuh iti
kuttakarah kriyate | tatra labdham kuttakarah
saptendurasadrivasavah, ankaih api 87617 | anena avamasesam
samgunayya apavartitabhudinaih eva vibhajet | sesam tatra raveh
mandalasesah | etena adityanayanam vyakhyatam |

uddesakah ā

satsaptabanendusaradrisunyadasrapramanah avamajataselah |
etena sesah ravimandalanam vacyah vivasvan ca kalantasankhyam
|| 2 ||

avamasesah 20751576 | labdham raveh mandalasesah 49665, ravih
ca 2 | 24 | 58 |

candrasya api kuttakaranayanam purvavat eva | apavartitavamah kena
gunitah apavartitacandrabhaganan apaniya apavartita[bhu]dinanam
suddham bhagam prayacchati iti kuttakaranyayena labdham
kuttakarah 2119236 | uddistavamasesena candranayanam |

athava madhyamat suryat sahayatabhaganaih liptikrtya trairasikam
ā yadi yugaraviliptabhih yugasasibhaganah labhyante, [tada]
etabhih yataraviliptabhih kiyantah iti | labdham bhaganah,
sese dvadasadigunite madhyamah candrah labhyate | athava
khakhasadghanena yada yugaraviliptah apavartitah bhavanti [tada]
ravibhaganah bhagaharah, sasibhaganah yataraviliptanam
gunakarah, phalam madhyamacandraliptah | evam anena nyayana candrat
abhistagrahat va istagrahah aniyate | katham?
nirjñatagrahayataliptanam abhistagrahabhaganah gunakarah
nirjñatagrahayugaliptah bhaganah va bhagaharah, phalam
[bhaganah] liptah [va] | atra ayam prasnah ā

savituh sasinam karoti yah sasinah sthititah tarakagrahan |
asmatsiddhantavarjitat kalajñaprarah sa ucyate || 3 ||
iti || 6 ||

[manusapitrdevavarsapramanani]

manusapitrdevanam varsapramananirupanaya aha ā

ravivarsam manusyam tat api trimsadgunam bhavati pitryam |
pitryam dvadasagunitam divyam varsam vinirdistam || 7 ||

ravivarsam, raveh varsam ravivarsam | ravivarsasya ca pramanam
abhihitam ā "ravibhaganah ravyabdah" [kalakriyā, 5] iti | raveh
bhaganabhogah manusanam varsam | yat eva raveh varsam tat eva
manusanam varsam iti | tat api trimsadgunam bhavati pitryam | tat
manusyam varsam trimsadgunitam pitryam varsam bhavati, yasmāt
masah tesam ahoratram | uktam ca ā "sasimasardham pitarah"
[kalakriyā, 17] iti | pitryam dvadasagunitam divyam varsam
vinirdistam | pitrnam yat varsam tat dvadasagunitam ekam
varsam devanam, yasmāt pitryam varsam masah devanam |
yathakramena ekatrimasastisatatraya[gunam] ca [ravivarsam]
manujapitrdevanam [varsani] || 7 ||

[yugamanam brahmadinapramanam ca]

caturyugabrahmadinajñapanartham aha ā

divyam varsasahasram grahasamanyam yugam dvisatkagunam |
astottaram sahasram brahmah divasah grahayuganam || 8 ||

yat etat divyam varsam tat dvadasabhih sahasrena gunitam
grahasamanyam yugam | grahanam samanyam grahasamanyam | kim tat?
yugam | yasmāt sarve grahah sahasighroccaih yugapat minamesasandhau
bhavanti, tasmāt yugam grahasamanyam | tat ca
viyadambarakasunyayamaramavedah [4320000] | etat eva
krta-treta-dvapara-kalivarsanam pramanam | asmakam tu
yugapadah sarve eva ca tulyakalah | pauranikaih tu bhinnakalah
vyakhyatah ā

catvari ahuh sahasrani varsanam yat krtam yugam |
tasya tavat sati sandhya sandhyamsah ca tathavidhah ||

itaresu sasandhyesu sasandhyamsesu ca trisu |
ekapayena vartante sahasrani satani ca ||

[manusmr̥tiḥ, 1.69-70]

iti | krtapramanam viyadambarakasavasuyamamunicandrah [1728000] |
tretapramanam viyadambarakasarasavanavarkah [1296000] |
dvaparapramanam viyadambarakasavedarasavasavah [864000] |
kalipramanam viyadambarakasayamaramavedah [432000] | samasitani
viyadambarakasunyayamaramavedah [4320000] | kim punar atra yuktam ā
puranakaraih yatha bhinnapramanani krtadini vyakhyatani
tatha pratipattum, ahoṣvit yatha asmakam acaryena pratipaditani
samapramanani iti? yatha asmakam prasiddhani tatha iti aha | yadi
puranaprakriyaprasiddhani yugapadapramanani parigrhyantam, tada
kaliyugadau grahah minamesasandhau yugapat madhyamagatya na syuh |
katham iti ucyate | yugapadanam trayanam ekatrapramanam
viyadambarakasastavasurasuramah [3888000] iti etaih aharganam
utpadya yathavहितamadyamagrahaganitaprakriyayam yugapat
minamesasandhau madhyamagrahah na labhyante | anaya eva prakriyaya
idanim api grahagatyam sadhyamanayam eva istagrahanam gatih na

labhyate | yadi punar samam eva krtadinam pramanam tat idam
trayanam api yugapadanam pramanam
viyadambarakasunyakrtayamagnayah [3240000], anena yatena sarvam
istam upapadyate | tasmā "yatha asmakam prasiddhani " iti susthu
uktam |

astottaram sahasram brahmah divasah grahayuganam | grahayugam iti
yat etat grahasamanyam yugam tat parigrhyate | tat astottarena
sahasrena gunitam prajapateh ekadivasapramanam bhavati | nanu ca atra
api pauranikaih saha virudhyate | katham? pauranikaih ā

sahasrayugaparyantam ahar yat brahmanah viduh |
ratrim yugasahasrantam te ahoratravidah janah ||

[bhagavadgita, 8.17]

iti sahasrayugaparyantam brahmanah divasapramanam uktam | atra ca
astottaram sahasram caturyuganam iti | atra tavat vicaryate |
pauranikaih ā "sahasrayugaparyantam ahar yat brahmanah viduh" iti
abhidhaya taih eva ekasaptatih caturyuganam manvantaram caturdasa
manavah brahmah divasah iti [abhihitam] | atra ekasaptatih
caturdasagunita sahasrasankhyam na prapnoti | ucyate ca ā caturdasa
manvantarani brahmanah divasah, sahasram caturyuganam iti
svavacanavirodhah | asmakam tu dvasaptatih caturyuganam manvantaram,
astottarasahasram brahmah divasah iti yuktisiddham etam | katham punar
idam jñayate dvasaptatih caturyuganam manvantaram iti?
gitikasuktatvat |

kahah manavah dha manuyugah skha | iti | [gitikā, 5] || 8 ||

[utsarpinyadiyugavibhagah]

utsarpinyapasarpinisusamadussmaparijñanaya aha āā

utsarpini yugardham pascāt apasarpini yugardham ca |
madhye yugasya susama adau ante dussama induccat || 9 ||

utsarpini nama yasmin praninam ayuryasoviryasaukhyadini
upaciyante sa kalah utasrpinisamjñakah | tasya ca pramanam
yugardham | yugasya ardhham yugardham | yugam tu abhihitam eva | tasya
ardhasankhyapramanam utsarpini

viyadambarakasunyarasenduyamah [2160000] | pascāt apasarpini
yugardham ca | pascāt iti anena ustarpinikalanantaram
apasarpinikalam darsayati | yasmat purvapavrttasya pascāt iti
vyapadesah bhavati | yasmin praninam ayuryasoviryasaukhyadini
apaciyante sa apasarpinisamjñakah kalah | tasya ca pramanam
yugasya pascardham viyadambarakasunyarasenduyamah [2160000] |

evam ca ā madhye yugasya susamadau ante dussamenuccat | tasya
purvardhasya madhye susama dussama ca | adau ante ca | adau
susama ante dussama | susamadussamapramanam
yugacaturbhagah | katham? madhye iti vacanat | yugardhasya ardhham

yugacaturbhagah iti | pratigrahaṃ yugabhedat aha ā "induccat" |
induccat nispannat yugat ete
utsarpinyapasarpinisusamadussamakalah avagantavyah iti |
atha kim ucyate induccat iti ? nanu ca grahasamanyam yugam iti abhihitam |
satyam | evam etat | pratigrahaṃ apavartanavisesat yugabhedah | tat
yatha ā raveḥ mandalāni sanmunisarah [576], divasapramanena
yugam api navavasuramasunyenduyamah [210389] | candrasya
divasapramanena yugam sarayamangavisayesurupadasrah [2155625] |
evam anyesam api |

atha yugasya kim laksanam? ucyate ā caitrasuklapratipadi ardhodite
savitari lankayam minamesasandhau pravrttah grahaḥ punar
minamesasandhau caitrasuklapratipadi savituh ardhodaye lankayam
yavata kalena prapnoti tavat kalah yugam iti | uktam ca ā

caitrasitadāu surye visuvati ardhodite pravrttasya |
mesadeh minantam tathavidhasya eva sampraptih ||

iti |

bhinnāgresu yugesu ekagrikaranam kuttakarena abhihitam ā
"kascit dvabhyam ekagrah tribhiḥ dvyagrah" iti adi | athava
induccat nimittat utsarpinyapasarpinisusamadussamanam
gatagantavyam vijñeyam iti | katham punar gatagantavyaparijñānasya
induccanimittatvam pratipadyate iti ? ucyate ā kuttakaraganitena,
yasmāt induccayatāgrasya induccabhāganah yugavarsani
yugadivasah [va] bhājyabhāgaharatam pratipadyante | tat yatha asmin
vastubhiḥ va parikalpitah uddesakah ā

nisithinīnam adhipasya tungajam gatam tu rasitritayam yada bhavet |
tada kiyat yatam atha asu ganyatam yugasya varsāgradināgratam ca me
|| 1 ||

labdham varsāgram viyadāmbarakasanyakrtayamāgnayah [3240000],
dināgram ca sararavivasuvahnivedaramavasurudrah [1183438125] |

athava ayam aparāḥ prakarah ā utsarpini yugardham | utsarpati iti
utsarpini, upāciyate iti arthah | ka sa utsarpini? grahabhuktih
īti adhyaharyam | sa punar kiyantam kalam utsarpini īti aha ā
yugardham | yujyante asmin grahaḥ iti yugam | tat ca naksatracakram eva
parigrhyate, yasmāt ekasmin mandale grahasya grahāih saha yogah
sambhavati | tasya yugasya ardham yugardham, sadrasayah | pascāt
apasarpini yugardham ca | pascāt punar api apasarpini yugardham eva |
rasitakam īti arthah | madhye yugasya susama, tasya yugasya madhye
antare īti arthah | susama aditah antatah ca ganyamane susama,
ekasya padasya aditah aparasya antatah īti arthah | [adau ante ca]
dussama drsta | anyaprakarena īti vakyasesah |

katham etah punar

utsarpinyapasarpinisusamadussamagrahabhuktayah vijñāyante īti
atra aha ā induccat, candrakendrat īti arthah | tat yatha ā indoh

kendrasya yada rasitrayam dvau bhagau astavimsatih ca kalah,
tada prabhrti madhyamabhuktih upaciyate, yavat kendram rasisatkam
samjatam iti | tatah tasmad rasisatkat kendrat upacitanam
bhuktinam utkramena apacayah, yavat kendrasya astau rasayah
saptavimsatih bhagah dvatrimsat liptah ca samjatah |
etah eva utkramena dvitiyapadantat praviganyamanah tulyah iti
adau ante ca susama | athava adau ante ca,
dvitiyapadanirdistakendrat prabhrti kramena yah bhuktayah yah
ca tritiyapadanirdistakendrat utkramena bhuktayah tah tulyah,
evam caturthaprathamapadayoh api, iti adau ante ca susama | anyatha
dussama |

atra indukendram uddisya acaryena
utsarpinyapasarpinisusamadussamah pradarsitah | etat
vidhanam anyesam api grahanam pratipattavyam | tat yatha ā suryasya
yada kendram rasitrayam sacatuspañcasalliptam, tada suryasya
vyasardhatulyah karnah, bhuktih ca madhyama | yada ca astau
rasayah ekonatrimsadbhagah liptah ca sat gatah [tada api]
vyasardhatulyah [karnah] , madhyama bhuktih ca | kuja[dinam api]
vyasardhatulyam bhutaragrahavivaram bhavati | tatha
"[kaksyapratimandalagah] [kalakriyā, 17] iti asyam karikayam
vaksyate || 9 ||

[aryabhatajanmakalah]

acaryaryabhatah svajanmakalajñanartham aha ā

sastyabdanam sastih yada vyatitah trayah ca
yugapadah |
tryadhika vimsatih abdah tada iha mama janmanah atitah || 10 ||

sastyabdanam sastih | sastih abdah
sastigunah iti arthah | yada vyatitah | yada yasmin kale,
vyatitah vyatikrantah | trayah ca yugapadah | yugasya padah
yugapadah, te ca yada trisankhyah vyatitah | tryadhikah
vimsatih abdah | tribhih adhikah tryadhikah vimsatih
abdah | tada | tasmin kale | mama janmanah atitah |

etat eva acaryaryabhatah sastravyakhyanasamaye va
pandurangasvami-latadeva-nisanku-prabhrtibhyah provaca |
atha atra idam prastavyam ā asya vyakhyanam kim upakaroti iti? ucyate ā
anena atitena kalena pariñātena sukham adityadinam kalah atitah
anagatah va pathyate | atha ca sampradayavicchedat vyatitah
kalah vijñayate | na etat asti | anabhidhane bahu atra smaraniyam |
trayanam yugapadanam varsasankhya
snyambarakasaviyadvedayamagnayah [3240000] | gatam ca kaliyugasya |
ekasya abhidhane etavatah tavat sampradayavicchedat arah na
kartavyah | kintu acaryajanmakalavadheh yah uttarah kalah asya
eva sampradayavicchedah adhigantavyah |

anyat ca "sastyabdanam sastih" iti asya abhidhane prayojanam
abhidhasyate | ayam asya abhiprayah ã krtayugadeh aharganah
sadhya | anyatha ksepah sasyuccapatayoh jayate iti |
krtayugadeh punar ahargane kriyamane sasyuccapatayoh na eva
ksepah | "budhahnyajarkodayat ca lankayam" [gitikaí, 4] iti
budhadih aharganah divasavarah | idanim tu
laghuganitavyavaharartham kaliyugaharganah kriyate |
sukradidivasavarah | candroccasya rasitrayam, rasisatkam ca
rahoh ksepah, tamasah ca mandalat vilomatvat visodhyate |
athava karanagatam eva tamah yatha istasphutacandramasi
praksipya daksinottaradigvidheh viksepanayanam iti |

atha ahargane drste grahagatyanyanam ã yadi yugaharganena
grahanam gitikabhihitabhaganah labhyante anena aharganena
kiyantah iti, labdham samatikrantah bhaganah | sese
dvadasadigunite rasyadimadhyamagrahasiddhah |

atha atra romakah pratyabdasodhanena adityam anayanti | tena ca adityena
sarvan eva grahan iti | etat atra api pradarsyam | tat yatha ã
pratyabdasodhanam hi nama caitrasuklapratipadi ardhodayat arabhya yavat
adityaudayikasya mandalagantavyasya bhogakalah | sa yugante
yugaravibhaganaih pramanecchabhutaih divasasankhyah eva
bhavanti | yatha istaravibhaganaih trairasikam kriyate, tat yatha
ã "yadi yugaravibhaganaih bhudivasasankhyah aharganah labhyate
istaravibhaganaih kiyantah iti aharganah labhyate, sese
sastyadigunite ghatikadayah iti
ravibhaganasamaptikalavadheh aharganah labhyate | tasmad
caitrasuklavadhini spannavarsantikah aharganah sodhyate,
caitrasukladeh uparistat ravibhaganasamaptikalavadhayah
bhavisyanti |

athava varsantikena aharganena trairasikam ã yadi
caturyugaharganena khughr-tulyah suryabhaganah labhyante, anena
kalyataharganena kiyantah iti labdham bhaganah | sesat
gatagantavyam krtva gatagantavyaraseh yugasuryabhaganaih
bhagalabdham divasah | sese sastyadigunite ghatikadayah |
caitrasukladeh uparistat adhah va
ravibhaganasamaptikalavadhayah divasadayah bhavanti | etat eva
pratyabdasodhanam asmabhih karmanibandhe laghutaram pratipaditam | tat
yatha ã

rudraih sahasrahasatchakalaih ca hatva
varsani randhravasuvahnisamanasankhyaih |
yuktva sada praviganayya kharamabhakte
masah bhavanti divasah ca hrte avasistah ||

samhatya randhrayamalaih sararamabhagah
bhuyah agnivedagunitesu haret ca bhagam |
khavyomakhadvimunibhih pralayah tithinam

samyojya bhutayamarudhrarte dinani ||

varsesu randhrakrtacandrasamahatesu
satsaptapañcavihrtesu dinadilabhah |
te yojitah dasahatasu samasu samjñam
samprapnuvanti ravijah iti niscayah me ||

ravijadivasayojyah ca avamah ye atra labdhah satatam adhikamasan
sodhayet khagninighnan | bhavati yat avasistam sodhaniyam samayam
yadi tat adhikasuddham ksepyam eva upadistam || iti |

[mahabhaskariyam, 1.22-23, 27-28]

evam pratyabdasodhanam aniya tatah arkah sadhyate | katham? etat api
tatra uktam eva ā

madhusitadivasadyah hinahinah ganah ahnam
divicarahrtasistah varamahabdapadim |
tatah idam api sodhyam sodhaniyam samayam
patitasamatiriktah grhyate na aparah atra ||

saptatya divasadyah sarabhagah dvigunitah vighatikah ca |
tadrahitah grahadehah ravibudhabhrgavah ca nirdistah || iti |

[mahabhaskariyam, 1.30-31]

evam suryah siddhah | [tasmāt bhaganesu] dvadasagunitesu
suryabhuktarasayah praksipyante | tatah trimsadgunitesu
bhagah iti | evam suryaharganah siddhah | suryahargana[tulya]m
amsam adityah bhunkte |

atha sarvesam grahanam suryadivasabhoganayanam | yugaravyabdah
sastisatratrayagunitah yugaravidivasah | yadi etaih
abhistagrahabhaganah labhyante, tada ekena ravidivasena kiyantah
iti trairasikanyayena [labdham bhaganatmika grahagatih] |
rasibhagaliptanayane dvadasa-trimsat-sastih ca gunakarah
| tesam samvargah khakhasadghanah | atah khakhasadghanasya
khakhasadghanabhage ekam, yugaravidivasanam khakhasadghanabhagena
dvasaptatih sahasrani, iti atah dvasaptatisahasraih
pratisvasvagrahabhagananam bhagah, labhyante grahanam
suryadivasabhuktayah atah ca yathalabdham likhyante ā candramasah
liptah dvavimsatih liptatrisahasrabhagah navavasuramah,
bhaumasya liptah ekatrimsat liptatrisahasrabhagah
rupakhamunipaksah, brhaspateh liptah pañca
liptapañcasaptatyuttaratrimsatabhagah dvavimsatih, sanaih
carasya liptadvayam liptastadasahasrabhagah sasikrtarah,
budhoccasya liptah nava liptasattrimsacchatabhagah
sasisuvedah, bhrgoh liptah saptatrimsat
liptasatsahasrabhagah navanavenduramah | evam
yathavilikhitasuryadivasagrahabhuktibhih suryaharganam gunayet,
suryabhuktaliptabhih ca trairasikena yat avaptam phalam praksipyā
khakhasadghanena vibhaget, sesam grahabhuktaliptah | iyan tatra

visesah candramasi trayodasagunah suryah ksepah, budhocce
caturgunah, sukrocce rupagunitah iti | etat api asesagrahanayanam
karma laghutaram eva karmanibandhe pradarsitam tatra eva avagantavyam iti ||
10 ||

[yugadikalanantyanirdesah]

kalapavrtyanantyapratipadanaya aha ã

yugavarsamasadivasah samam pravrttah tu caitrasukladeh |
kalah ayam anadyantah grahabhaih anumiyate ksetre || 11 ||

yugam ca varsam ca masah ca divasah ca yugavarsamasadivasah, ete
samam pravrttah yugapat pravrttah iti arthah | kasmah iti aha ã
caitrasukladeh | caitrah masah, tasya [yah] suklah paksah,
tasya sukla[paksa]sya yah adih, [sa] ardhodayah iti arthah, tasmah
caitrasukladeh yugadayah ye te yugapat pravrttah | nanu ca yuge
caitrasukladeh pravrtte sarve eva samam pravrttah syuh | tasmah
yugam caitrasukladeh pravrttam iti etat eva astu | na iti aha ã
sastrantare varsadinam anyasmah pravrttih abhihita ã

prathame vasavasya amse dvitiamse tu ajasya tu |
revatinam tritiamse caturthamse yamasya ca ||

saumyasya prathamamse ca dvitiamse punar vasoh |
sarpasya amse tritiae tu caturthamse bhagasya ca ||

tvastrasya adyamsake ca eva dvitiamse visakhayoh |
aindrasya amse tritiae ca apyasya amse caturthake ||

yada samanah adhipah brhaspatih atah utthitah |
udayati amsakante va prathamah paryayah bhavet ||

iti|

evam varsanam pravrttih atidurabhinna | tasyam ca
varsapavrttau bhinnayam masadivasapavrtti api bhinne eva bhavatah
| athava evam syat ã iyam varsanam pravrttih nanaprakara
phalarthibhih samhitaraih upadista | na esa prasiddha loke,
na paratantresu | tasmah ya paratantresu loke ca prasiddha pravrttih
tasyah grahanam bhavisyati iti | etat api na | tat yatha ã
surastrasu kartikasuklapratipadah pravrttih
varsamasadivasanam, asvayujah [krsna]pañcadasyam nivrttih
| tatha ca magadhasu asadhe krsnapratipadah
samamasadivasanam pravrttih, asadhasitapañcadasyam
nivrttih | tatha ca arthasastre api abhihitam ã "trisatam
sacatuspañcasatam ahoratranam karma samvatsarah, tam
asadhiparyavasanam unam purnam va dadyat" iti | simharajena
sahasraksare nibaddham ã

ravyudaye lankayam asadhipaurnamasyam tu somadine |
krtakrtavarsaih yataih sakendrakahat yugasya adih ||

iti |

yugadinam caitrasukladeh pravrttyabhidhanam siddham eva etat |
idanam prastavyam ā simharajena na suklantah masah svatantra
pratipaditah, tatha ca loke suklantah eva prasiddhah, horayam api
ā

candrayutat navabhagat masah suklantanamasamah |

iti |

atra ucyate ā yat tu simharajena abhihitam tat svabhiprayena
adhikamasakavamanam yugapat pravrttatvat asadhapaurnamasi
[tah arabhya caturdasi] paryantavasanam samvatsarah iti
parikalpita | yadi api ucyate "suklantah masah loke prasiddhah"
iti, tat na | nanu sarvesu eva desesu masah | santi ca desah
krsnantamasavyavaharah surastraprabhrtayah | yat api
ucyate ā

candrayutat navabhagat masah suklantanamasamah |

iti, asya api anyah eva arthah | candrayutat navabhagat prastuh
masah vacyah | [sa suklantena] namna sadrsah | suklante [na]
hi masasya namaparijñanam | krttikasu yuktah candrama asmin sati
kartikah masah iti adi |

anyat ca ā suklantena masena na kadacit api minamesasandhau masasya
varsasya va ante grahah syuh |

atra aha yavanesvarah ā

mase tu suklapatipratavrtte purve sasi mandabalah dasahe |

iti sukladih masah | yada punar sukladih masah tada punar
srutyarthah anusthitah bhavati | evam hi srutau pathyate ā

esa hi vai samvatsarasya prathama ratrih yat phalguni paurnamasi
ya uttara |

iti | [yadi] krsna[pratipad]adih masah syat, tada katham iyam
uttara paurnamasi phalguni bhavati, yat uta tat caitramasah syat ?
kutih? phalgunyam paurnamasyam phalgunah masah purnah, tada
uttara paurnamasi caitra[masasya], pratipatkrsnaditvat masasya |
tatah manyamahe na adya api phalgunah masah samapyate iti | yasmāt
aha ā

phalguni paurnamasi ya uttara |

iti |

anyat ca ā

[ya asau] vaisakhasya amavasya tasyam agnim adadhita, sa rohinya
sampadyate | [satapatha-brahmanam, 11.1.1.7]

iti |

yadi suklantah masah parikalpyate tada na vaisakhasya amavasyayam
rohinya candramasah yogah vidyate | yasmat caitrapaurnamasyam
citrayam somah yujyate, tasyam caitryam vyatitayam vaisakhpratipat
| tatah ca svatyadisū naksatresu pratipat [prabhṛti] ganyamana
amavasya bharanya yujyate, na rohinya | atha candragativisesat iti
[cet, na] | naksatrardhasya sakalasya va hrasavrddhi bhavatah, na
naksatradvayasya | sukladau punar mase vaisakhapaurnamasyam
vyatitayam vaisakhasya eva amavasya bhavisyati | tatah
krsnapaksapratipatprabhṛtyanuradhadisu ganyamanasu rohinya
amavasyayah ca yogah sambhavati |

anyat ca ā

sah aparapakse apa osadhīh pravisati |

iti |

satapatha [11.1.5.3] evam pathyate | tatra aparapaksah krsnah,
[na] suklah | anyat ca smartavacanam ā

aparapakse sraddham kurvita urdhvam va caturthyah |

iti atra krsnadi[māsatvat] purvapaksah krsnah, aparah
suklah | aparatvat suklapaksasya suklapakse eva sraddhavidhīh
prapnoti na krsne, isyate ca sukle [tare], tasmāt sukladīh
masah iti | tatah "yugavarsamasadivasah samam pravṛttah tu
caitrasukladeh" iti |

atra utpreksitapurvapaksah drastavyah | yugadinam
caitra[sukladitah pravṛtti]tvat kalasya adimattaprasangah iti
aha ā kalah ayam anadyantah | ayam kalah asmabhih yugadīh
abhihitah, caitrasukladeh pravṛttah iti | na asya antah na asya
adīh | vyavahartham adīh antah ca parikalpītah | yadi kalasya
adīh syat tatah kim syat? aha ā samsarasya adimatta prapnoti,
isyate ca anadīh samsarah iti | tasmāt yuktam "kalah ayam
anadyantah" iti |

katham punar asya adīh vyavahartham parikalpītah iti aha ā
grahabhāih anumiyate ksetre | grahah ca bhāni ca grahabhāni | taih
grahabhāih anumiyate adīh antah ca | "man mane"
[paniniyadhatupathah 1143] iti ayam dhatuh dhumat agnyanumanam
iti atra mane vartate | atra punar grahabhāih anumiyate iti manarthah
eva | vrihyadirasayah prasthādibhih anumiyante, kunkumadayah va
palādibhih, evam grahabhāih iti | yada sarve eva grahah yugapat
minamesasandhau ksītisamyuktah tada yugasya adīh iti | kah
bhuvah grahasya ca yogah, dvayoh atyantaviprakṛstāyoh? na
esah dosah | mukhyasya yugasya asambhavat gaunah yogah
parigrhyate | yatra bhulagnah iva grahah lakṣyate sa bhugrahayoh
yogah | sa ca udayastamayayoh sambhavati iti udayastamayayoh va

parigrhyate |

anye punar anyatha vyavarnayanti ā grahabhaih anumiyate iti | grahaih
ca naksatraih ca kalasya adih antah ca parikalpyate | tat yatha ā

udeti yasmin naksatre pravastopagatah angirah | tasmāt
samvatsarah masat barhaspatyah praganyatam || iti |

brhaspaticaravasat kalasya adih parikalpitaḥ | loke ca evam
vaktarah bhavanti ā "svatau udite prasthasyamahe udayah " iti, "sukre
astam gate prasthitaḥ" iti, "adya krttikasu madhyasthitasu darukah
[gataḥ]" iti adi | ksetre | ksetram bhagolah, tasmin bhagole,
naksatragraharavasat adih antah ca parikalpitaḥ || 11 ||

[grahanam samagatitvam]

grahanam samagatipratipadanaya aha ā

sastya suryabdanam prapurayanti grahah bhāparināham |
divyena nabhaḥparidhim samam bhramantah svakakṣyasu || 12 ||

sastya suryabdanam adityavarṣanam sastya grahah
nakṣatrakakṣyam prapurayanti, nakṣatrakakṣyatulyani yojanani
svasu svasu kakṣyasu gacchanti iti arthah | [kiyadyojanani] punar
nakṣatrakakṣyayam grahah suryabdanam sastya purayanti?
ucyate ā vasuviyadambarakasarasayamatrisailacandraḥ [173260008] | na
etat asmabhiḥ nakṣatrakakṣyapramanam drṣtam | kim tarhi? ka
esa pratipadita iti? ucyate ā "bhavamse arkah" [gitikā, 6] iti
| atra katham punar etena eva nakṣatrakakṣyatulyani yojanani gacchanti
iti ucyate? yadi khyughr-tulyaiḥ arkavarṣaiḥ svan-svan bhaganan
grahah bhūñjante [tada] sastya suryabdaiḥ kiyantah iti |
sastibhagena api sastya ekah, punar sastibhagena
ete[sam] khyughr-tulyanam arkavarṣanam dvasaptatisahasraṇi |
evam yathabhagena avinastarasayah sthāpyah | tataḥ punar api ā
yadi ekena bhaganena pratisvakakṣya labhyate [tada]
sastyabdabhogena ka iti sarvagrahebhyah nakṣatrakakṣya labhyate |

divyena nabhaḥparidhim | divi bhavam divyam, yugam iti arthah | katham
punar divyasabdena yugam abhidhiyate? yasmāt divi sañcaratam grahanam
ekatra yogah bhavati, atah [divyam yugam uktam tena] divyena
nabhaḥparidhim | nabhasah paridhiḥ nabhaḥparidhiḥ, akasakakṣya
iti arthah | katham idam ucyate? nanu ca viyat aparimitayojanapramanam iti
srūyate | tasya parimitayojanapramanam katham kakṣya bhavet? ucyate ā
viyat asmakam yavat divasakaramaricinidhanam avabhasayati tavat viyat iti
| atah param akasam aprameyam iti | atra khakakṣyabhidhanena etat
pratipadayati, iyatpramanam viyadarkamaricayah prapnuvanti iti |

samam bhramantah | tulyaya [gatya] bhramantah iti arthah | yavanti
yojanani svakakṣyayam sasi samcarati tavanti eva yojanani arkih
api svakakṣyayam sañcarati | tat yatha ā yadi ekena bhaganena
svakakṣya labhyate [tada] yugabhaganaiḥ kim iti khakakṣya labhyate |

athava ā sastyabdabhogena naksatrakaksya labhyate svaih
yugabhaganaih kim iti khakaksya labhyate | evam yojanagatena grahah
tulyagatayah | kaksyatah grahanam madhyamanayanam ā yadi
[yuga]bhudinaih sarve eva svasu kaksyasu samagatya bhramantah
[kha]kaksyatulyani yojanani prayanti, ekena ahna kiyanti iti
sarvagrahanam yojanagata dinabhuktih labhyate iti, khakaksyayam
bhudinaih bhage hrte yojanagata grahanam dinabhuktih labhyate |
taya trairasikam bhanktva madhyamagrahah aniyante ā yadi
svakaksyayojanaih bhaganah labhyate tada gatiyojanaih kim iti
ahniki bhuktih labhyate, tatah punar api ā yadi ekena ahna bhuktih
labhyate aharganena kim iti | atra ekah purvatrairasike gunakarah,
[apare bhagaharah] atah gunakarabhagaharayoh tulyatvat
nastayoh aharganasya dina[gati]yojanani gunakarah sthitah,
[svakaksyayojanani bhagaharah, labdhih] bhaganadayah | [uktam
ca] ā

ambarakaksya bhudinahrta phalam tatra yojanani tesu |
gatahasamgunitesu svagrahakaksyaptabhaganadyam ||

iti | a[thava khakaksya]harganasamvarge
svakaksyabhudinasamvargahrte bhaganadayah bhavanti || 12 ||

[grahanam samagatitvena kaksyavyavastha]

samagatya pravrttagrahakaksyavyavasthapradarsanartham aha ā

mandalam alpam adhastat kalena alpena purayati candrah |
uparistat sarvesam mahat ca mahata sanaih cari || 13 ||

mandalam alpam adhastat | sarvesam adhah vyavasthitam mandalam
alpam alpe[na kalena puraya]ti candramah | adhastat iti anena eva
mandalasya alpatvasiddhih, alpam iti etat na vaktavyam | katham adhastat
iti etavati ucyamane mandalasya alpatvam gamyate? ucyate ā upari upari
kaksyah vyavasthitah | tasam upari upari vyavasthitanam adhah ya
vyavasthita sa sarvataniyasi | tasmad adhastat [induh] syat | na etat
asti | "bhanam adhah sanaih cara" [kalakriyaī, 15] iti atra
kaksyanam upari upari vyavasthitim vaksyati | nanu ca anye bruvate ā
sarvesam upari candramasah kaksya iti | [tat ayuktam] sarvesam
grahanam adhah candrakaksya iti aha | yadi upari syat tada
candrasya grahanaksatrabhede sphutakalankaharine
grahanaksatra[tarah drsyeran] | suryavasat yadi upari candrah
syat tada suryena arat vyavasthitena sada candramasoh api svasya
arat bhagam akhandam drsyeta, uparisthitah [na upalaksyate] |
tasmad sarvesam adhah candramah |

anye punar sugata[mata]valambinah suryacandramasoh ekam kaksyam
acaksate ā

ardhena meroh candrarkau pañcasatsaika[yojanau] |
ardharatrah astagamanam madhyahnah udayah sakrt || iti ||

na evam yujyate | yadi pañcasat yojanani candrah, ekapañcasat
[yojanani] suryah tada kim iti suryah [na] mahan upalabhyate, tulyau
etau [ardho]ditau ardhamitau paurnamasyam laksyete? atha viduravat
arkah na mahan upalaksyate iti cet na | tarhi mandarardhe
suryacandramasoh duribhuta arkah | anyat ca
tulyakaksyavyavasthitatvat suryacandramasoh suryagrahanam na eva
syat | na ca candramasam muktva anyah rahuh asti yena savita chadyate
| yadi api adhah candrah syat tatha api mahattvat suryabimbasya na eva
arkah sakalah chadyate | na eva arkah candrena chadyate iti cet tat
api uttaratra vyakhyasyate |

kalena alpena purayati candrah | alpena stokena kalena purayati | kim?
tat alpam mandalam adhah vyavasthitam | uparistat sarvesam
mandalanam mahat mandalam mahata kalena sanaih carah purayati
| etau alpamahatkaksyamandalaparimanau grahau uddistau,
anyesam ca [mandalani svabuddhya vijñeyani] | tat yatha ã
candramah divasankhyaya saptavimsatya sardhaikaya mandalam
gacchati, budhasukraravayah kiñcit unena varsena, bhaumah kiñcit
unena varsadva[yena, guruh] tu varsaih dvadasabhih kiñcit
unaih, sanaiscarah tu trimsata varsaih kiñcit unaih iti |
evam ete bhinnakaksyasthah yojanagatena tulyagatayah grahah
vyakhyatah |

atha yadi tulyakaksyasthah yojanagatena tulyagatayah eva syuh tada
etesam yugadeh sampravrttanam na kadacit viyogah syat | atha
[yadi] yojanagatena ete bhinnagatayah syuh tada etesam
bhuktiliptanayane yojanaih yathasvam prasiddhabhuktiliptah na
agaccheyuh | tasmāt bhinnakaksyasthah api grahah yojanagatena
tulyagatayah eva iti || 13 ||

[bhinnakaksyasu rasyadinam alpamahattvam]

kaksyanam alpamahattvat rasibhagaliptah bahvyah alpah iti
sandehah tannivrttyartham aha ã

alpe hi mandale alpah mahati mahantah ca rasayah jñeyah |
amsah kalah tatha evam vibhagatulyah svakaksyasu || 14 ||

alpe mandale alpah rasayah mahati mandale mahantah, evam
amsah kalah ca, kevalam tu vibhagena sadrsah | tat yatha ã
alpe mahati ca mandale mandaladvadasabhagah rasih,
sastisatratrayabhagah bhagah, khakhasadghanabhagah liptah
iti, svasu svasu kaksyasu jyotiscakrasya tulyatvat || 14 ||

[grahakaksyavasthitikramah]

kaksyanam upari adhah ava[sthiti]kramaparijñanaya aha ã

bhanam adhah sanaiscarasuragurubhaumarkasukrabudhacandrah |
esam adhah ca bhumih medhibhuta khamadhyastha || 15 ||

bhani jyotimsi, asvinyadini | tesam adhah sanaiscarah, tasya

api adhah brhaspatih, tatah angarakah iti adi | esam adhah
ca bhumih | esam naksatradinam bhuh adhah | medhibhuta |
atra "bhuta"-sabdah bahusu arthesu vartamanah iva arthe
pratipattavyah | medhi iva sthita | khamadhyastha | kham akasam tasya
madhyam khamadhyam, tasmin sthita khamadhyastha | esam adhah ca
bhumih iti | atra ucyate ā yada drsye cakrardhe grahanaksatrani,
tada tesam adhah bhumih | yada atah anyesu grahanaksatrani
smararipusutahibukasaahjadhanesu vartante tada katham adhah bhuh, yat
uta upari syat | na evam vijñayate | yasmat sarvesam asmadadinam
bhuh adhah, upari ca akasah, [tasmat] sarvada grahah upari,
bhuh adhah | vaksyati ca ā

yadvat kadambapuspagranthah pracitah samantatah kusumaih | tadvat hi
sarvasattvaih jalajaih sthalajaih ca bhugolah || iti | [golaí, 7]

[anye tu imam kalpanam] duravipratipannam,
bhaganasanaiharbrhaspatikujaravisitabudhanisakaran
uparyuparivyavasthitan tulya[gatikan manyante | tat yatha ā ya]vat
alpamandalam bhani bhramanti, tavat mahanti mandalani
sanaiscaradayah [na] saknuvanti purayitum iti prsthatah
laksyante, yathakaksya[mandalakramena] iti | atra pariharah
prak pradarsitah ā yadi upari syat tada candrasya grahanaksatrabhede
sphutakalankaharine grahanaksatratarah krsyeran [prí 212] iti
adina granthena |

anye manyante ā tulyakaksyasthah eva
bhaganasanaiscarabrhaspatikujaravisitabudhanisakarah | kintu
yathakramena sigragatayah | atah drutagatibhih naksatraih
isamandagatih isat jiyate, atimandagatih tu durat iti |
isanmandagatitvat sanaiscarah isat jiyate, atimandagatitvat
candramah [du]ram iti | atra api yadi pranmukhah grahadayah tada
pranmukhah drutagatibhih naksatraih jiyamanah asvinyam
drstah revatyam upalaksyeta, na bharanyam | vakrakale api ca,
pratilomagatitvat asvinyam drstah bharanyam eva upalaksyeta |
atha ete grahadayah aparabhimukhah kalpyante, tatha api vakrakale
asvinyam drstah pratilomagatitvat bharanyam upalaksyeta |
tulyakaksyavyavasthitanam ca lambanavisesah na syat | anyat ca ā
anyonyabimbacchadanam na syat | grahoparagah api ca
tulyakaksyavyavasthitatvat na yujyate | tasmat "bhanam adhah
sanaiscarah" iti adi susthu uktam || 15 ||

[kalahoradinadhipatijñanam]

kalahoradinadhipatijñapanaya aha ā

sapta ete horesh sanaiscaradyah yathakramam sigrarah |
sigrakramat caturthah bhavanti suryodayat dinapah || 16 ||

ete grahah sanaiscaradayah tulyagatayah api santah yathakramena
sigrarah laksyante, mandalanam yathakramena alpatvat | te eva

horesh yathakramena | tat yatha ā sanaiscarasya kalahorayam
nivr̥ttayam brhaspateh kalahora, tatah angarakasya, tatah
raveh iti adi | evam suryodayat prabhrti yavat suryasya
ardhastamayah iti dvadasa kalahorah | tatah ca ardhastamayāt
ardhodayah iti punar dvadasa | evam ahoratre caturvimsatikalahorah
| kalahora hi nama lagnaraseh ardhodayasya kalah | sa ca divase
divase divasadhipatah prabhrti pratipattavya | uktam ca
sphujidhvajayavanesvarena ā

adityasukrendujacandrasaurajivavaneyah syuh aharnisasu |
horeshvarah taddivasadhipadikramena tah tatra caturgunah sat
||

evam divasadhipat suryodayat ganyamanat uttaradivasasya adhipat eva
ardhodayat sigrakramat caturthah, yah sigrakramah abhihitah
"bhanam adhah sanaiscarah" iti adi tasmāt caturthah
divasadhipatih | tat yatha ā sanaiscarat caturthah suryah
divasadhipatih, suryat somah caturthah, somat angarakah iti adi
| evam anena kramena masadhipah abdadhipah ca avagantavyah |
katham? [masasya varsasya ca yah] prathamadivase adhipah sa
masadhipah varsadhipah ca | suryodayat dinapah | suryasya
udayah suryodayah | yadi api sesena uktah suryodayasesena
ardhodayah pratipattavyah | kutah? idam bimbavayavabhidhane api
tadavayavapramanasya manakalavadharanasakyatvat ardhodayasya ca
vyaktalaksanatvat supericchedanaya ardhodayah asriyate | athava
anirdistesu vastusu madhyamapratipatteh ardhodayat arabhya punar
ardhodayah iti |

atra kecit ardhastamayāt varapravr̥ttim manyante | tat ca ayuktam | yasmāt
uktam ā

asit idam tamobhutam aprajñātam alaksanam |
apratarkyam avijñeyam prasuptam iva sarvatah ||

[manusmṛtiḥ, 1.5]

atra janapadajyotiscakrabhavat na varadivvyavaharah sañjatah |
yada protpannah sahasrakiranaḥ tada prabhrti varadivvyavaharah
sañjatah iti | atah susthu uktam suryodayat dinapah iti || 16 ||

[pratimandalavidhina grahagatinirupanam]

ete grahah kasmin mandale bhramanti iti [na jñāyate] atah
tannirupanaya aha ā

kakṣyapratimandalagah bhramanti sarve grahah svacarena |
mandoccat anulomam pratilomam ca eva sigrhroccat || 17 ||

kakṣyayah pratimandalam kakṣyapratimandalam, tat gacchanti iti
kakṣyapratimandalagah | athava kakṣya ca pratimandalam ca
kakṣyapratimandale, te gacchanti iti kakṣyapratimandalagah |
atra kakṣyagah madhyamah grahah, sphutah

[prati]mandalagah | athava kaksyapratimandalayoh yatra
sampatah sa kaksyapratimandalasabdena ucyate | tam gacchanti iti
kaksyapratimandalagah | atra anekavat vigrahayogasya, katamah
vigraha parigrhyate iti sandehe ucyate ā kaksya ca pratimandalam
ca kaksyapratimandale | te gacchanti iti
kaksyapratimandalagah, iti ayam parigrhyate | katham? istatvat
sesavigraharthavacakatvat ca atra isyate | kaksyagah madhyamah
grahah yasmāt tulyabhuktayah, pratimandalagah sphutagrahah
yatah sasadsabhuktayah |

atha ke te madhyamah, ke va sphutah grahah? nanu ca ekah eva
suryah, ekah eva candramah, ekah eva angarakah iti adi |
madhyamasphutatayam parigrhyamanayam grahadvayam prapnoti | na evam
vijñayate madhyamah grahah sphutah grahah iti | katham tarhi?
madhyamagrahasabdena madhyamagrahasya grahagatih abhidhiyate,
sphutagrahasabdena ca sphutagrahagatih iti? tat yatha ā kascit
samvatsaram prcchati ā "kah savita" iti, sa tasma aha ā rasih
ekah pañcadasa bhagah trimsat liptah iti | tatra yah
pariprcchati yah ca acaste tayoh ubhayoh
abhi[praya]dvayaprasangah | na esa dosah | ya madhyama gatih sa
sphutagatisadhanasya upayah | anyatha aniyatatvat sphutagatih
asakya syat vijñatum | evam eva ca [madhyamagrahah]
pratimandalaparijñanartham parikalpita | yat asya grahasya
vyasardhatulyam bhutaragrahavivaram sa tasmāt pradesat prabhrti
kaksyamandalasya upari adhah va avatisthate |

atha kah asau ayam pradesah? ucyate ā yada trtiye karmani dvitiye
pade mandoccakendram rasitrayam dvau bhagau pañcasat liptah, tada
brhaspateh mandoccakarnah vyasardhatulyah | caturthe karmani
yada sighroccakendram rasitrayam pañcabhagah vimsatih ca kala,
tada vyasardhatulyah sighroccakarnah | atra vyasardhatulyam
bhutaragrahavivaram | asmat pradesat prabhrti bhutaragrahavivaram
pratidinam apacyate | anaya yuktya sesanam api grahanam
vyasardhatulyam bhutaragrahavivaram uhyam |

bhramanti sarve grahah svacarena iti etat nigadavyakhyanam eva |
mandoccat anulomam | "mandoccat" iti hetau pañcami | tena mandoccat
hetoh anulomam iti vyakhyayate, yasmāt na mandocce vakraparijñanam |
pratilomam ca eva sighroccat | sighroccat hetoh pratilomam, yasmāt
sighrocce vakraparijñanam | katham punar sighrocce vakraparijñanam?
ucyate ā yada sighroccakendram dvitiyapade tada sarve grahah
vakrinah bhavanti, yada ca trtiyapade sighroccakendram tada
anuvakragatayah | uktam ca ā

grahonasighragrahesu krtasadvasusu kramat |
bhavet vakrativakra ca tatha anukutla gatih ||

iti | suksmatarah [ca ayam] vidhih iti | ucyate ā yada adyatanat
grahat svastanah grahah tulyah bhavati tada vakraprarambhah |

athava hyastanat grahat adyatanah grahah tulyah tada api
vakraprarambhah | yada adyatanat trtiyapade svastanah grahah
adhikah tada vakrasya nivrttih | athava hyastanat grahat adyatanah
grahah adhikah trtiyapade tada api vakrasya nivrttih | yada
grahah bahvih liptah nivartate tada ativakragatih |

katham punar idam vidhanam sighroccat eva ganakah prajanate, na punar
mandoccat iti? ucyate ā yasmat suryavasat grahanam
udayastamayavakranuvakrah gatayah | yadi evam atra katham
budhasukrayoh anyat sighroccam, [madhyah] suryah | atra api
suryavasat eva tayoh udayastamayaparijñanam | vakragatih tu ekatvat
upayantarena vijñayate | athava uccanicamadhyamaparidhih iti
evamadisphutagatisadhanopaya[bhutanam ca] upayanam na [eva
niyamo]kkih va vidyate | kevalam tu upeyasadhakah upayah | tasmāt
iyam sarva prakriya asatya, yaya grahanam sphutagatih sadhyate |
[evam ca paramarthajijñasubhih asatyopaye]na satyam pratipadyate | tatha
hi bhisah hi utpalanaladisu vadhadini abhyasyante | napitah
pitharadisu mundanadini, yajñasastravidah su[skestya]
yajñadini, sabdikah
prakrtipratyayavikaragamavarnalopavyatyayadibhih sabdan pratijanate
| evam atra api
madhyamamandoccasighroccatparidhiyakasthabhujakotikarnadi-vyav
aharena samvatsarah grahanam sphutagatim pratijanate | tasmāt
upayesu asatyesu satyapratipadanaparesu na codyam asti |

atha kim artham ime grahah pratidinam bhramyanti | atha ca loke kascit
bhraman karanena bhramati | anyat ca ā na evamvidhah kascit drsyate
anavaratagatih yatha ime taragrahah bhramanti iti drstantatvena
udaharanabhutah iti | ucyate ā sarvadau kila bhagavan prajapatih
grahan uktavan yat "bhavantah mesadiganesu prajanam
subhasubhaphalaya bhramyata" iti | uktam ca sphujidhvajayavanesvarena
ā

prajah sirsksuh kila visvadhata
prajapatih pragvratam acacara |
sa dvadasangaprabhavam svadeham
srstva aditah vai bhaganam sasarja ||

tebhayah sa mesadiganan prajajñe tebhayah ca tadbhedavikalpatah
anyan | atah bhavargasya vibhuh praneta
prajabhavabhavavidhisvaratvam || iti adi |

athava sabdena arthanumanam kriyate | sruyante ca sabdah ye ca apare
atra gativacakah | tat yatha ā "pathah skan" [astadhyayi,
5.1.75] iti vartamane "panthah na nityam" [astadhyayi, 5.1.76] iti
anena nityam panthanam gacchati iti asmin arthe panthah iti ayam sabdah
| atra loke na kascit adhvanam anavaratam gacchan drsyate, tasmāt ami
eva grahah panthah | na ca ayam sabdah asatsvarthesu
sasavisanakurmaromavandhyaputrasabdavat pravrttah | tasmāt
susthu ucyate sabdena arthanumanam panthah grahah iti |

athava ayam aparah prakarah | mandoccat anulomam pratilomam ca eva
sighroccat | mandoccat yatah mandoccakendrat pratimandalavidhanena
anitam phalam pratyaham upaciyate | kva? anyasya asrutatvat mandocce eva |
tasmāt mandoccat anulomam | pratilomam ca eva sighroccat | yasmāt
pratimandalavidhanena anitam phalam sarvada apaciyate | kutah?
anyasya asrutatvat sighroccat eva | tasmāt "pratilomam ca eva
sighroccat" iti || 17 ||

[pratimandalavidhanam]

sphutah pratimandale bhramanti iti uktam, atah tājñāpanaya aha
ā

kaksyamandalatulyam svam svam pratimandalam bhavati esam |
pratimandalasya madhyam ghanabhumadhyat atikrantam || 18 ||

kaksyamandalatulyam | kaksyamandalena tulyam
kaksyamandalatulyam | kaksyamandalapramanam
"sasirasayastha cakram" [gitikaí, 6] iti etasmin sutre vyakhyatam
| svam svam pratimandalam atmiyam atmiyam pratimandalam, bhavati |
esam grahanam | pratimandalasya madhyam | yat madhyam kendram tat
ghanabhumadhyat atikrantam | ghanah ca asau bhuh ca ghanabhuh,
tasyah ghanabhuvah madhyam ghanabhumadhyam, tasmāt ghanabhumadhyat,
atikrantam nirgatam uparisthitam iti arthah | tat yatha ā yavat
pramanaparikalpitam sastisatratrayamsavacchinnam
kaksyamandalam purvaparam urdhvam vinyasya, tads eva anyat
mandalam upari adhah kaksyamandalat vaksyamanena antarena
purvaparayoh disoh yatra sampatah tatra yat badhyate gole
tatpratimandalam nama | evam ete kaksyapratimandale vyakhyate ||
18 ||

[nicocavrttividhina grahagatipratipadanam]

kaksyapratimandalantarapratipadanartham aha ā

pratimandalabhuvivaram vyasardham svoccanicavrttasya |
vrttaparidhau grahah te madhyamacarat bhramanti evam || 19 ||

pratimandalasya bhumandalasya ca vivaram pratimandalabhuvivaram |
vyasardham svoccanicavrttasya | uccavrttam nicavrttam ca
uccanicavrttam, svasya uccanicavrttam svoccanicavrttam, tasya
svoccanicavrttasya vyasardham pratimandalabhuvivaram | tat yatha ā
"jhardhani mandavrttam" iti adhikrtya "sasinah cha" [gitikaí, 10]
iti sapta sasinah jhardhani uccanicavrttam,
sardhaikatrimsadbhagapramanam iti arthah | yasya yat vyasardham tat
trairasikaganitena siddham | yadi "caturadhikam satam astagunam"
[ganitaí, 10] iti evamadeh paridheh ayutatulyam vyasardham labhyate
tada sardhaikatrimsadbhagapramanasya paridheh kim iti labdham
bhagah pañca, lipta ca ardhadhikena eka | suryasya api trini
jhardhani mandavrttam, sardhatrayodasabhagapramanam, tasya ca
trairasikena svavrttaviskambhardham labdham bhagadvayam, ardhadhikena

nava liptah | athava ā yadi sastisatraya[bhagamita]paridheh
[vasutrikrtavahniliptamitam] vyasardham labhyate tada uccanicaparidheh
kim iti labdham candrasya uccanicavyasardham liptatrisati
sardhadhikarupa | evam suryasya api satam ekonatrimisaduttaram
[sardham] | tatra bhagapramanena liptapramanena va
kaksyapratimandalamadhyantaram parikalpyam | evam suryacandramasoh
| anyatha anyesam samavisamavrttamandoccasighroccabhedena
anekapratimandalaprasangabhayat uttaratra vaksyati ā
"bhutaragrahavivaram" [kalakriyā, 25] iti | vrttaparidhih
kaksyamandalam, tasmin vrttaparidhau madhyamacaram grahah
bhramanti | pratimandalesu sphutacaram bhramanti iti arthat
avasiyate || 19 ||

[nicocavrttaparidhau grahagatih]

grahabhuktyanayanavakranuvakraparijñanaya aha ā

yah sigragatih svoccat pratilomagatih svavrttakaksyayam |
anulomagatih vrtte mandagatih yah grahah bhavati || 20 ||

sighra gatih yasya tat sigrahgatih, sigragatih ca tat svoccam ca
sigragatih svoccam, sigratihsvoccat yah pratilomagatih
sigragatih | svoccasabdena svasighroccabhuktih parigrhyate | sa
yadi sighroccabhuktih svakendrantajya[sadhitasphutamadhyam]mabhukteh
[na patati] tada sa eva sphutamadhyama bhuktih
svakendrantajyasadhita svasighroccabhukteh pratilome[na] patyate |
tada sigragatih svoccatgatih iti ucyate | pratilomasabdena ca
viparitatitasalipthah parigrhyante | evam ayam vigharthah
nispannah bhavati | pratiloma gatih yasya sah pratilomagatih iti |

aditah eva etat bhuktyanayanam prati vaksyate | tat yatha ā
mandoccakendrantajyam kramena utkramena va nispannam
svamadhyamabhuktiliptabhih gunayet | punar ca tat kalapratidhina
gunitasya astadasabhih sahasraih bhagalabdham kendrapadavasat
ardhikrtya grahamadhyamabhuktiliptasu praksipyā visodhya va
svasighroccabhuktiliptabhih sodhayet | sesam
svasighroccakendrantajyakramotkramajyagunam tat
kalasighroccaparidhina gunayet | bhagah astadasabhih
sahasraih | labdham vyasardhagatam svakarnena vibhajat | labhdasya ardham
kendrapadavasat grahamadhyamabhuktiliptasu ksipet, visodhayet va |
tatah tam ksipetavisodhitasesam grhitva trtiyakarma ā
mandoccakendrantajyakramotkramajyam tat kalaparidhigunam
astadasabhih sahasraih vibhajat | labdham samastam eva
grahamadhyamabhuktiliptasu mandakendrapadavasat ksipet, visodhayet va |
ksiptam visodhitasistam va sphutamadhyamabhuktiliptah
avinastah tah svasighroccabhuktiliptabhyah visodhayet |
sesam [grhitva] caturthakarma ā
sighroccakendranta[jyakramotkrama]jyam tat kalaparidhigunam
astadasabhih sahasraih vibhajat | labdham vyasardhagunam

karena vibhaje | tatra yad avaptam tat yadi ksepyam
sphutamadhyamabhuktiliptasu ksipet, nispanna grahasya sphutabhukti
| atha visodhyam sad yadi sphutamadhyamabhuktita na patati tada
pratilomagatih grahah sphutamadhyamabhuktiliptah eva viparitam
sodhyah | sesam vakrabhogah | asmin arthe iyam karika ā

yah sigragatih svoccat pratilomagatih svavrttakasyayam |

pratilomagatih vakragatih iti arthah |

anulomagatih vrtte | asau anulomagatih bhavati | yada sighroccat
sighroccakendrantajyanispanna liptah
sphutamadhyamabhuktiliptabhyah visuddhah, tada asau grahah
anuvakri | tatra ca visesaliptah anulomasabdavyah | tatah
arthat ayam vigraha avasita ā anuloma gatih yasya sa anulomagatih
iti | sa ca alpam gacchati iti mandagatih abhidhiyate || 20 ||

[nicocavrttabhramanaprakarantaram]

grahanam sphutikaranaprakarantaram aha ā

anulomagani mandat sigrat pratilomagani vrttani |
kaksyamandalalagnasvavrttamadhye grahah madhyah || 21 ||

anulomam gacchati iti anulomagatih | tat uktam ā mandat,
uktamandocavadheh madhyamat iti | tat atra api sighroccavadheh
madhyamat iti etat ekaprakramena bhavitavyam | na iti aha ā sigrat
pratilomaga]tih pratilomavadheh | sighroccasya pratilomagatini
viparitagatini yani vrttani paridhayah | atra vrttasya ekadese
vrttasabdopa[carat paridhayah ca] iti, yatha mandasigrakendrayoh
tajjyakasthe dhanumsi | atah tani dhanumsi mandakendrat
jatani kramena upa[ciyante, sigrakendrat] jatani utkramena
upaciyante | atah "anulomagani mandat sigrat pratilomagani
vrttani" | katham punar vrttani mandasigrakendrayoh
tajjyadhanumsi kramotkrama[gatini? gate]h avasthavadakatvat |
yatha ā

gatih asti iti bhutanam sukumarayate manah |
[anastvanisam eva udham dhuram] vahati gauh iva ||

tatha ā

danam bhogah nasah tisrah gatayah bhavanti vittasya |
yah na dadati na bhunkte tasya trtiya gatih bhavati ||

[bhartrharih, nitisatakam, 34]

tasmāt yāni eva jyadhanumsi tāni eva pratilomanulomagatini |

atha atra idam prastavyam ā mandocajyadhanumsi mandoccat
upaciyante, sighroccajyadhanumsi sighroccat apaciyante | kutah
etat? sampradayavicchedat | atha "vyakhyanatah visesapratipattih,
na hi sandehat alaksanam" [astadhyayi, sivasutram 6,

patañjalamahabhasyam] iti | athava mandoccasighroccasravanat
mandoccasighroccayoh eva pratipattih, anyasya asrutatvat ca |

[pratimandalavidhina grahasphutikaranaprakriya]

ayam aaryasutrarthah yatha ghatate tatha karmana
pratipadayisyamah | istat grahat tat mandoccam visodhayet |
sesam rasyadikam mandoccat pravrttam tat kaksyamandalotpannam
iti pratimandale kriyate, yasmat pratimandale sphutagrahah
bhramati | tena tasmad mandoccat arabhya yat kastham tat mahati
mandale alpam bhavati | "mahati mahantah ca rasayah jñeyah |
amsah kalah tatha evam [kalakriyā, 14] iti | alpe
pratimandale tat eva kastham bahutaram bhavati, manalpatvat |
vrihyadayah mahata manavisesena pramiyamanah
prasthadisankhyaya alpah bhavanti, [te] eva alpena manavisesena
miyamanah prasthadisankhyaya bahavah bhavanti evam atra api |
katham punar tat kastham kaksyamandalotpannam pratimandale
pramiyate? ucyate ā tat kasthasya padani vyatitani pratyakalaya
vartamanapadasya bhujakotijyaya karma idam kriyate ā "pratimandalasya
madhyam ghanabhūmadhyat atikrantam" [kalakriyā, 18] iti
pratimandalabhuvivaram kotyam prathamacaturthayoh padayoh
praksipyate, dvitiatrtiyayoh apaniyate |

etat pratipadanartham samayamavanau vrttakendram nidhaya yavat tavat
pramanaparikalpitavyasardhapramanena karkatakena vrttam alikhet |
tasya vrttasya purvapara[daksinottara]lekhe krtva
[tadvrttakendrat antya]phala[jya]pramanam [sutram mandoccabhimukham]
daksinena nidhaya tatra kaksyamandalavyasardhatulyakarkatakena
vrttam alikhet | tat pratimandalam iti ucyate | [tat
prathamacaturthapadayoh] kaksyamandalat upari avatisthate,
dvitiatrtiyayoh adhah | tatra ya kotijya sa
kaksyamandalotpanna kaksyamandalabhūmyantaralāpramana |
tena pratimandalabhūvivarantaralāmatrena pratimandalam
prathamacaturthayoh padayoh kotih na prapnoti iti praksipyate,
dvitiatrtiyapadayoh tavata atitat pratimandalat kotih iti
apaniyate | evam pratimandalotpanna kotih bhavati | atha yadi
koti[jyatah] pratimandalabhūvivaram na sudhyati, tada
pratimandalabhūvivarat kotijya sodhyate | tavati
pratimandalakotih bhavati | tatra evam nispannayah koteh
bhujajyayah ca vargasamasamulam karnah | tat suksmarthibhih
avisisyate, pratimandalakarnasya vrdhhihrasavasat drstih
bhidyate iti | tat yadi vyasardhatulyena pratimandalakarnena yatha
uktam pratimandalabhūvivaram labhyate tada tena pratimandalakarnena
kim iti | labdham purvakotijyayam praksipyate apaniyate va | tatah
tadbhujajyavarga[samasa]mulam karnah | tena punar
pratimandalabhūvivarānyanam iti yavat avisesah | tatah
avisistakarnena vyastatirāsikam kriyate ā yadi
vyasardhāvīskambhasya kaksyamandalasya iyam bhujajya labhyate,

tada tena karnena pratimandalajena ka iti | vyastatrairasikatvat
vyasardham gunakarah, karnah bhagaharah, labdham
pratimandalabhujajya | tat kastham mandocce praksipyasphutah
grahah bhavati, yasya mandoccakendram prathamapade | dvitiyapade
sadbhyah rasibhyah visodhya bhujagrhitva itisanbhyah
apaniyate, sesam mandocce praksipyate | trtiyapade
cakrardhadhikabhujajya ititacapam cakrardhasahitam mandocce praksipyate
| caturthapade dvadasebhyah visuddhasesam bhujajya iticakratat
kastham visodhya sesam mandocce praksipyate | evamsphutagrahah
bhavati, yasyasighroccam na vidyate |

yesam punarsighroccam vidyate tesam karmavisesah ucyate | tat
yatha ā paridhicalanaprayogena sphutikrtaparidhina vyasardham
samgunayya asitya bhagalabdham pratimandalabhuvivaram
mandasighroccayoh | tena anantarabhihitamandoccakarmana
mandocca[phalam] sadhayet | [tat] sakalasamskrtah grahah bhavati | tat
evam nispannasya, madhyamasya grahasya [ca] yat antarardham tat madhyamat
mandoccasiddhe adhike madhyamagrahe dhanam, unenam | evam
mandoccasam[skaranam] | etateva karma "sanigurukjesu mande ardham
rnadhanam bhavati purvam" [kalakriyā, 22] itianena granthena
abhidhiyate | katham? sanigurukjesu, mandaragurusu madhyamesu
madhyamakarmana siddhesu mandaragurusu itiarthah | "ardham
rnadhanam bhavati purvam" [kalakriyā, 22] itikasya ardham rnam
dhanam va bhavati itiatra sampradayavicchedat mandasiddhamadhyamantaram
parigrhyate | kim tasya ardham madhye grahe dhanam rnam va purvasiddhe
mandoccakarmani bhavati? idam ca karma mandoccasighroccayoh samanyena
prasiddham | kutah? visesanuvadana[bhava]t | tat yatha ā evam
ardhena phalena samskrtam madhyamam graham sighroccat grahat
visodhayet | tatra kendrapadavibhagena bhujakotijye grhitva
sphutikrtasvasighroccaparidhina vyasardham samgunayya asitya
bhagalabdhapratimandalabhuvivarena purvakarmana eva samskrtat
karnam anayet | atra avisesabhavat avisesakarma na pravartate |
tatah bhujajyaya vyasardham samgunayya karnena bhagalabdhasya
kastham sighroccakendre prathamapade sighroccat apaniyate, dvitiye
padesadbhyah visodhya sesam sighroccat apaniyate | trtiye
pade cakrardhayuktam, caturthe pade dvadasabhyah visuddhasesam,
"sighrat pratilomagani vrttani" itivacanat | evam
sighroccasakalaphalasamskrtah grahah bhavati | tasya mandoccasiddhasya
ca purvavat eva antarardham mandoccasiddhe purvakalpanaya eva dhanam
rnam va kuryat | tat mandasighra[siddha]m avinastam vidhaya
tasmāt mandoccam visodhya purvavat eva mandoccam sadhayet | tasya
mandoccasiddhasya dvisamskrtasya avinastasthapitasya ca yah
visesah tam sakalam eva dvisamskrtahnamadhyamat visodhayet,
adhikamadhyame praksipet | [arthat dvisamskrtamandasiddhe unesati
visodhayet anyatha praksipet] | tam evamkrtam sighroccat visodhya
sighroccaprasiddhakarmana samsiddhah sphutah grahah bhavisyati
iti | etateva karma samksepena asmabhih karmanibandhe uktam ā

pratimandalakarma api yojyam atra vipasicita |
mandocce purvavat kuryat sighroccat tat visodhyate ||

tat eva kevalam sodhyam [cakrardhat sodhya tat calat] |
cakrardhasamyutam capam cakrat suddham ca sesayoh ||

sphutavrttagunam trijyam bhaktva asitya svakotitah |
tyaktva padesu yuktva va karnah pragvat prasadyate |
mandoccasiddhatanmadhyavislesardhasamanvitah |
mandasiddhe adhike hine rahitah madhyamah grahah ||

sa sighroccat punar sadhyah siddhayoh antarlajam |
ardhikrtya sakrt siddhe purvavat parikalpayet ||

evamkrtasya bhuyah api mandasiddhim samacaret |
mandasiddhasya tasya ayam visesah yah abhidhasyate ||

dvisiddhamandasiddhasya dvisiddhasya yat antaram |
pragvat tat madhyame krtva sighrasiddhah sphutah grahah ||

[mahabhaskariyam, 4.45-51]

atra sanigurukujagrahanam sighroccavat grahapratipadanartham | tena
budhasukrayoh api idam karma kriyate |

kaksyamandalalagnasvavrttamadhye | kaksyamandale lagnam
kaksyamandalalagnam | kim tat? svavrttamadhyam,
svavrttamandalamadhyam | kaksyamandalalagnam ca tat
svavrttamadhyam ca kaksyamandalalagnasvavrttamadhyam | tasmin
kaksyamandalalagnasvavrttamadhye | grahah madhyah | yah asau
madhyah grahah sa kaksyamandalalagnasvavrttamadhye bhavati | etat
uktam bhavati ā kaksyapratimandalayoh yatra sampatah tatra yah
asau madhyamagrahah, sa eva sphutah iti |

[grahasphutikarane anyesam matapradarsanam]

atha anye anyatha vyakhyanam kurvanti | anulomam gacchanti iti anulomagani
| kani? vrttani, paridhayah iti arthah | mandat | mandoccat
prabhrti yani mandoccvrttani mandoccat arabhya anulomam gacchanti,
yasmāt mandoccakendram ahar ahar upaciyate | sighrat pratilomagani |
sighrat sighroccat arabhya yani sighroccavrttani tani pratilomam
gacchanti, yasmāt sighroccakendram ahar ahar apaciyate | atra idam
prastavyam ā katham va mandoccakendram ahar ahar upaciyate, katham va
sighroccakendram ahar ahar apaciyate iti? ucyate ā grahat patite mandocce
[mandakendra]bhuktayah upaciyante, grahat patite sighrocce
sighrakendrabhuktayah apaciyante | yadi evam grahat sighroccam na
patati mahattvat tarhi mandalam praksipya patyate iti | tatra
bhaganah bhaganebhyah visodhyah, rasayah rasibhyah,
bhagah bhagebhyah, liptah liptabhyah iti esah kramah | tatra
grahabhaganebhyah sighroccabhaganah eva tavat na suddhyanti |
kutah asau bhaganah yam praksipya sighroccam visodhyate? tasmāt
ganitayuktya yani api sighravrttani tani api anulomagani eva |

acaryena tu karanalaghavartham "pratilomagani vrttani" iti uktam |
kim punar atra karanalaghavam? kamacarah | yadi grahah sighroccat
patati tada grahah sighroccat visodhyate | yada ca sighroccam grahat
patati tada grahat sighroccam visodhyate iti | satyam eva etat, kintu
jyaparidhikalpana vyabhicarati | yada grahat sighroccam visodhitam
bhavati tada anyatha jya anyatha paridhih, tadanim eva sighroccat
visuddhe grahe anyatha jya anyatha eva paridhih | atha manyate
sighroccavisuddhe grahe yat prathamapadam tat caturthapadam, yat
dvitiyapadam tat trtiyapadam, yat trtiyapadam tat dvitiyapadam, yat
caturthapadam tat prathamapadam iti | evam tarhi yat jyayasi kalpana,
tasmāt mandoccam grahat visodhyam | grahah ca sighroccat |
mandasighravrttani kramotkramena eva gacchanti |
kaksyamandalalagnah | kaksyayah mandalam
kaksyamandalam | athava kaksya ca sa mandalam ca tat
kaksyamandalam | tena kaksyamandalena lagnah
kaksyamandalalagnah | kah? grahah madhyah | svavrttamadhye |
svasya vrttam svavrttam | tat ca samanyena mandavrttam sighravrttam
ca parigrhyate | tasya svamandavrttasya [svasighra]vrttasya ca madhyam
svavrttamadhyam | tatra grahasya madhyah, sa ca
kaksyamandalasaktah | svavrttasya kaksyamandale yatha
madhyam bhavati tatha badhniyat | tasmin svavrtte yatha
kaksyamandale yatha madhyam bhavati tatha badhniyat | tasmin
svavrtte yatha kaksyamandale jya avitisthate tatha eva
avatisthamana drastavya | katham? yatha kaksyamandalasya
sannavatyamsaka kasthajya | evam atra api
sannavatyamsaka kasthajya parikalpaniya | tat yatha ā
uccat arabhya bhujajyakotijyabhyam trairasikam ā yadi
sastisatratrayaparidhau ime bhujajyakotijye, [tada] uccanicaparidhau
ke iti | athava ā vyasardhena ime bhujajyakotijye, tatah
antyaphalatulyena uccanicavrttavyasardhena ke iti | labdhe
uccanicavrttasya bhujajyakotijye | tatra prathamacaturthayoh padayoh
vyasardhat upari kotisadhanam sthitam iti vyasardhe praksipyate |
dvitiyatrtiyayoh padayoh vyasardhonam pravrttam iti vyasardhat
apaniyate | evam kotika nispanna bhavati, bhujakotivargasamasamulam
karnah | evam mandasighrayoh karnotpattih || 21 ||

[nicocavrttavidhina sanigurukujasphutikaranam]

grahanam rñadhanapratipadanaya aha ā

ksayadhanadhanaksayah syuh mandoccat vyatyayena sighroccat |
sanigurukjesu mandat ardhm rñam dhanam bhavati purve || 22 ||

ksayadhanadhanaksayah | ksayah ca dhanah ca dhanah ca ksayah
ca ksayadhanadhanaksayah | ete ksayadhanadhanaksayah
yathasankhyena padesu pratyetyayah | tat yatha ā prathame pade
ksayah, dvitiye pade dhanam, trtiye pade dhanam eva, caturthe pade
ksayah iti | ayam ksayadikramah |

padakramah ca kasmāt parigrhyate iti aha ā mandoccat pravrttat
grahāt | kutah? ucyate ā "mandoccat" iyaṃ pañcāmi mārādabhidhāyini
| tataḥ mandoccat iti anena mandoccat pravrttāḥ grahāḥ parigrhyate
| sa kathāṃ mandoccat pravrttāḥ grahāḥ jñeyāḥ? ucyate ā na atra
kiñcit api jñeyāṃ | yavadbhiḥ mandoccat adhikāḥ grahāḥ tavata asau
mandoccat pravrttāḥ grahāḥ jñeyāḥ | tena tatparijñānartham
mandoccam grahāt patyate, tatra sesena rasyādina mandoccat
pravrttāḥ asau grahāḥ bhavati | tasmāt prathamapade ya kramajya
tasya phalam trairasikena aniyate | yadi
sastisatrayaparidheḥ iyaṃ jya, tada istagrahaparidheḥ ka
iti phalam labhyate | etat eva trairasikam |
jhardhapavartamanasastisatrayaparidheḥ asitih,
svaparidhibhaganam yathā uktasarasankhya | tena paridhina
gunitajyayāḥ asitih bhagaharāḥ | svaparidhyaksarasankhya
gunakarāḥ | labdham phalam rnam eva | dvitīyapade utkramena jya
vyavasthita iti, utkramajyaphalam dhanam | punar tritīyapade kramena jya
vyavasthita iti kramajyaphalam dhanam | caturthe pade utkramena jya
vyavasthita iti utkramajyaphalam ksayaḥ | tatra prathamapade eva
mandakendram, tat utpannam eva phalam grahamadhye ksayaḥ | yada
dvitīyapade kendram tada prathamapadavyasardhājyotpannam asesaphalam
ksayaḥ, dvitīyapadotkramajyaphalam dhanam | prathamadvitīyapadabhyam
trīyācaturthapade vyakhyate |

athava karanalaghavartham evam kriyate ā prathamapade yat utpannam
kramena jyaphalam ksayaḥ | dvitīyapade yat utpannam punar yat gatam
rasyādikam atitam prathamapadasamjñītarasitrayat ksayaḥ
dhanatmakam tat dvitīyapadasya yat gatam tat visodhya sesam tatra
ksayaḥ eva avatisthate, tena tat utpannam phalam madhyamagrahe
ksayaḥ | evam dvitīyapadante ksayaḥ dhanayoh tulyatvat na kiñcit
avatisthate | tasmāt samarthyatāḥ ayam arthah samjātaḥ ā
prathamapade gatajyaphalam ksayaḥ, dvitīyapade api agatajyaphalam
ksayaḥ | etena mandakendraphalam mesādike ksayaḥ | tat etat
prathamapade gatam bhujasamjñītam dvitīyapade anagatam |
kotisamjñītam [prathamapade anagatam] dvitīyapade gatam |
trīyācaturthayoh ca | trīyapade kramajyaphalam dhanam | caturthapade
trīyāpadarasitrayat dhanat dhanasamjñītat
caturthapadarasyādigataksayasamjñītam visodhyate, sesam dhanam eva
avatisthate | evam caturthapadante dhanaksayaḥ tulyatvat na
kimcit avasisyate | tasmāt atra api sa eva arthah tuladikendre
bhujaphalam dhanam iti |

susthu khalu etat avagamyate | yadi padesu sarvesu tulyah
paridhayaḥ tada evam syat | na ca tulyah paridhayaḥ pathyante |
atulyesu ca paridhisu pratimandalasya ca api avastha virudhyate |
kutah? prathamapade sukrasya catuskāḥ paridhiḥ | tatra
dvitīyapadapraptau eva dvikāḥ paridhiḥ | tatra ardhapahalam parihiyate |
grahāt tu gacchan kramena gacchati, na harinaplutena | na esa dosah
| tulyah paridhayaḥ | nanu ca uktam ā na ca tulyah paridhayaḥ

pathyante iti | na etat asti | evam vijñayate ā ete paridhayah
upacaya[pacaya]tmakah, yatah tena tulyopacayapacayatmakatvat
kramotkramavyavasthayah, yatah te eva bhavanti iti | tena tulyah
ucyante | tat yatha ā prathamapade kramajyam paridhyantarena hatva
vyasardhena labdham une visamapadaparidhau praksipyate, adhike
apaniyate | prathamadvitiyapadabhyam trtiyacaturthapade vyakhyate |

vyatyayena sighroccat | sighroccakendrat padavasat
kramotkramajyaphalam viparitam | prathamacaturthayoh padayoh dhanam,
dvitiyatrtiyayoh ksayah iti viparyayah | athava bhujaphalam
sighrakramena anitam mesadau dhanam, tuladavrnām |
paridhicalanadyasesam purvavat eva | atra sighraphalam vyasardhena
samgunayya tat utpannakarnena bhagalabdham phalam dhanam rnam va |
etat ca karma trairasikam ā yadi vyasardhamandale idam phalam
labhyate, tada sighroccakarnamandale kiyat iti vyastatrairasikena
vyasardham gunakarah, karnah bhagaharah | atra kim iti
vyastatrairasikam? ucyate ā "alpe hi mandale alpah mahati mahantah
ca rasayah jñeyah" [kalakriyā, 14] iti anena | atha mandoccaphalam
evam kasmāt na kriyate? ucyate ā kriyamane api tavat eva tat phalam
bhavati iti na kriyate | kutah? mandoccakarnah avisisyate | tatra ca
avisesitena phalena vyasardham samgunayya karnena bhage hrte
purvam anitam eva phalam bhavati iti | atha kim iti sighroccakarnah na
avisisyate? abhavat avisesakarmanah |

atha atra idam prastavyam ā kaksyamandalasya yatha
svayojanakarnah vyasardhah, tat ca svaliptabhih miyamanah
vasvagnivedaramah [3438], pratimandalasya api etat eva vyasardham iti
etat | kaksyamandalotpannajyaphalaliptabhih trairasikabhavah,
kaksyapratimandalayoh tulyavyasardhatvat | atha manyate ā
tatkalotpannabhujakotinispannakarnah vyasardham pratimandalasya
| tena trairasikopapattih | evam tarhi na kaksyamandalatulyam
pratimandalam iti | atra ucyate ā caturthapadadau
kaksyapratimandale tulye | tena kaksyapratimandalayoh tulyam
vyasardham | tatah prabhrti pratimandalavyasardham [kramena
upaciyate] | evam kramena upaciyamanam uccatulyagrahe
svocavrttaviskambhardham upacitam bhavati | tat eva prathamapadadau
prabhrti utkramena apaciyamanam prathamapadante vyasardham eva bhavati
| evam kramena apaciyamanam dvitiyapadante uccavrttaviskambhardham
apacitam bhavati | trtiye [padante] ca utkramena upaciyamanam iti etat
kaksyamandalavyasardham eva | grahasya uccanicagatikramat
upacayapacayatmakam bhavati iti atah pratimandalasya upadesah |
ghanabhumadhyat eva grahasya uccanicaparijñanam iti atah vyasardham
eva kotiphalena upaciyate apaciyate va | atha yadi
pratimandalamadhyat vyasardhasya vrddhihrasau syatam | tada
trtiyam mandalam parikalpayitavyam syat | ghanabhumadhyat karnasya
upacayapacayau, tena tatkarne vyastatrairasikopapattih iti | etat
ganitanyayasiddham eva |

sanigurukjesu | sanih ca guruh ca kujah ca sanigurukjah |
atah tesu sanigurukjesu mandat mandoccat prabhrti ya[t phalam
upapadyate] tat ardhm rnam dhanam va bhavati | purve purvakarmani,
mandat prabhrti iti | sighrat api ca yat phalam tat tesu ardhm kriyate
prathame sighrakarmani | anyatra dvitiyakarmani mandasighrayoh
sakalaphalam iti arthat avasiyate | mandasighraphalani kasthani
rnam dhanam va parikalpyate | yatah kasthena grahah bhramati |
tat phalam kva rnam kva va dhanam iti ã sanigurukjesu | atra
sanigurukjah madhyamah eva parigrhyante | kutah? madhyamasya
sphutikaranopayatvat | tada hi ete sphutibhavanti |

yadi etat karma sanigurukjesu madhyamesu kriyate, mandoccephalardhena
madhyame rnadhane krte tasya rnadhanikrtasya madhyamatvam hiyate
| [atah] sighroccaphalacapardhasya avikrtamadyame dhanarne
prapnutahj| na etat asti | mandoccephalacapardhadhanarnikrtah eva
bhavisyati | kutah? "ekadesavikrtam ananyavat bhavati" iti
[astadhyayi, 4.1.83 patañjalamahabhasyam] ekadesavikrtah api
madhyah eva | yatha devakattah svalankrtah api svam akhyanam na
jahati, na ca karnanasavacchedena api, evam atra api, dve karmani tatra
tatra eva madhyame kriyete | athava prathamamadyamat mandocccayatam
phalardham madhyamotpannatvat madhyame kriyate | yat punar sighroccayatam
sakrtsamskrtat phalardham tat sakrtsamskrtayatam eva iti
krtva sakrtsamskrtah eva kriyate | tasmad dvikarmasamsiddhat
mandoccephalam tat sakalam eva madhyame grahe kriyate | sa sphutamadyamah
bhavati |

atha idam prastavyam ã yat etat dvikarmasiddhamandocccayatam tat
dvikarmasamsiddhe eva kasmad na kriyate | ucyate ã " mandoccat
sphutamadyah" [kalakriyaí, 23] iti madhyame kriyate | nanu ca
dvikarmasiddhah api madhyamah eva | kutah? "ekadesavikrtam ananyavat
bhavati" iti vacanat | evam tarhi siddhe, punar sphutamadyamagrahanam
kurvan acaryah jñapayati avikrtamadyah iti | anyatha hi
sphutamadyamagrahanam atiricyate | tasmad dvitiyaphalam mandocccayatam
tat sakalam eva madhyame grahe kriyate |

sighroccat ca sphutah jñeyah iti | sa evamkrte
sphutamadyamah sighroccakarmana sphutah bhavati iti
sphutamadyame sighroccaphaladhanuh sakalam kriyate, sphutah bhavati
|

rnadhanayuktipradarsanartham vyasardhatulyena karkatakena
samayamavanau samavrttamandalam alikhya matrpitrrekham kuryat |
tat kaksyamandalam rasijyarekhaviracitam | tanmandalakendrat
yavatyah abhistagrahantyaphalaliptah tavati antare ca
daksinena kendram krtva vyasardhatulyena eva karkatakena tatha eva
samavrttamandalam alikhet | tat pratimandalam |
[kaksya]mandalat yavadbhiih pratimandalam niskrantam tavata
vyasardhena kaksyamandaladaksinottararekhasampate kendram
krtva ubhayatra vrttadvayam alikhya[te | te nicocca]vrtte | tayoh

yatha kaksyamandale rasijyavikalpah tatha karaniyam |
prathamacaturthayoh padayoh kaksyamandalat uparisthitatvat
pratimandalasya vvasardhe kotisadhanam praksipya karnah
krtah, tavat pramanam sutram [pratimandalaparidhim] yatra
sprsati tatra sthane sphutah grahah | kaksyamandalajya ca
tasmat puratah iti arthah | prathamacaturthayoh padayoh tat utpannam
phalam madhyamagrahat apacyate | dvitiatrtiyayoh padayoh
kaksyamandalat adhovyavasthitatvat pratimandalasya, vvasardhat
kotisadhanam apaniya krtah karnah, tavatpramanam sutram
kaksyamandalamadhyat pratimandalaparidhim yatra sprsati tatra
sphutah grahah | sa ca kaksyamandalajyapradesat puratah
avatisthate | tena tat utpannam phalam dvitiatrtiyayoh padayoh
madhyamagrahat upacyate |

sighroccce punar yesam ksayadhanadhanaksayah syuh mandoccat evam
eva sighroccat iti ayam pathah tesam iyam rmadhanopapattih |
yesam punar vyatyayena sighroccat iti ayam pathah tesam iyam eva
upapattih viparita | katham? pratimandale sphutah ca grahah,
madhyamah ca sighroccaparikalpanaya kaksyamandale | punar
kendrajya tena prathamacaturthayoh padayoh prsthatah sthitatvat
madhyamasya kendrajyagrahasya aniyamanasya kendrajyotpannam phalam dhanam
bhavati purahsthitatvat kendrajyagrahasya, dvitiatrtiyayoh padayoh
prsthatah sthitatvat kendrajyagrahasya tat phalam apaniyate | atah
evam mandasighrayoh parasparaviruddhatvat upapatteh, acaryena
paramarthasphutagrahapradesah bhutaragrahavivarapramanapradesah
darsitah | tena yavat bhutaragrahavivarapramanam sutram
kaksyamandalamadhyat pratimandalaparidhim padavibhagena
prasaritam yatra sprsati, tatra sphutah grahah |

anye punar anyatha pathanti ā sanigurukjesu mande ardhham rnam
dhanam bhavati purvam iti | mande mandocce ardhham phalasya rnam dhanam,
yadi tat grahe rnam dhanam tada tat mandocce dhanam rnam iti arthat
avasiyate | tatra kiyat tat phalam mandocce rnam sat dhanam bhavati,
dhanam sat rnam bhavati iti ucyate ā sighroccaphalam yasmat
mandoccephalam ca phaladvayam etat | tayoh mandoccam adharah |
phaladvayam adheyah | atah sighroccaphalam kriyate |
karmacatustayagrahanat tat utpannam ca phalam tatra eva | tat yatha ā
prag eva sighraphalam aniya tat ardhham rnam dhanam va mandocce
krtva tat mandayatam ca tena phaladvayasamskrtena mandocce
samskrtah sa sphutamadhyah grahah bhavati | sa sigrakarmana
sphutah iti prakriyantaram etat || 22 ||

[prakarantarena sanigurukjasphutikaranam]

grahanam sphutikaranaprakarantaram aha ā

mandoccat sighroccat ardhham rnam dhanam grahesu mandesu |
mandoccat sphutamadhyah sighroccat ca sphutah jñeyah || 23 ||

mandoccat yat phalam ayatam tasya capardham rnam dhanam va grahesu

rnam dhanam [mandesu va kartavyam] | evam tarhi cakarah kartavyah |
cakarena vina grahesu mandesu ca iti carthah na labhyate | na
cakarah kartavyah | antarena api cakaram carthah avagamyate |
[katham?] evam ā

bale vrddhe ksate ksine ksiram yuktya prayojayet |

iti atra cakarena vina carthasya avagamanat | evam ayam api |
"sva"mandesu api vaktavyam, yena svesu madhyamesu svesu ca mandesu
kriyate | "sva"sabdah api na kartavyah | svasya grahasya yah madhyamah
svasya ca yat mandam tatra eva karmasiddheh | yatha "matari vaktavyam
pitari susrusitavyam" iti | na ca tatra ucyate ā "svasyam matari
svasmin va pitari" iti | evam atra api iti |

atha yat etat mandoccyatam phalardham tat ksayadhanakramena madhye
grahe dhanam rnam va kriyate | mande punar katham kriyate, mandasya
rnadhanakramasya anabhidhanat? ucyate ā mandoccam sarvada eva grahasya
rnabhutam | tatra yat grahasya rnam tat mandocce praksipyate,
rnabhutatvat | yat grahe dhanabhutam tat mandoccat apaniyate,
mandoccasya rnabhutatvat eva | ayam ca ganitanyayah ā

rna[rnayoh dhana]dhanayoh samksepe rnanadhanayoh ca
visesah |

iti | tasmāt anena kramena mandocce phalardhasya upacayapacayau bhavatah
| sighroccat ca yat phalardham tat api evam eva grahavaiparityena mande
dhanam rnam va kriyate | grahesu punar prayojanabhavat na kriyate |

mandoccat | mandocasighroccaphalardhena samskr̥tam mandoccam
parigr̥hyate | kutah? karmadvayavrttau mandanirdesat | tena
tadr̥gvidhena mandena madhyamat visodhitena yat phalam ayatam tat sakalam
madhyesu rnam dhanam va kriyate | sphutamadhyah | [madhyamasya]
sphutasya antarvartitvat [sphutah ye na, na avikr̥tesu] madhyamesu
phalasya karanat madhyamah | athava sphutasya madhyamah
sphutamadhyamah | ekena karmana nispanna yena dvitīyam karmantaram
apeksante | sighroccat ca sphutah jñeyah | sighroccat ayatam
phalam tena samskr̥tah sphutah | cakarah phalayoh samuccayam
abhidhatte | jñeyah avagantavyah boddhavyah iti yavat || 23 ||

[bhrgubudhayoh sphutikaranam]

bhrgubudhayoh karma aha ā

sighroccat ardhonam kartavyam rnam dhanam svamandocce |
sphutamadhyau tu bhrgubudhau siddhat mandat sphutau bhavatah || 24 ||

sighroccat iti prak sighroccanispānam phalam gr̥hyate | tat eva
sighroccaphalam agre | tatra tat ardhonam ardham iti arthah | rnanadhanam
kartavyam | yadi grahe rnam tada dhanam kartavyam | dhanasya rnam
kartavyam iti arthat avasiyate | kva iti aha ā svamandocce | svakiyam
mandoccam svamandoccam, tasmin svamandocce | sphutamadhyau bhrgubudhau
bhavatah | katham? siddhat mandat | yat eva sighroccaphalardhena

samskr̥tam mandoccam tat siddham iti abhidhiyate | tasmāt siddhat mandat
sphutamadhyau bhavatah | etat uktam bhavati ā yat eta[t siddhamandam tat
madhyama]grahat visodhya sesaphalasya ca r̥nadhanena tayoh
bhrgubudhayoh madhyau sphutamadhyau bhavatah | "tu"-sabdat
"sighroccat ca sphutah jñeyah" [kalakriyā, 23] iti etat kriyate
|| 24 ||

[bhutaragrahantaralam]

[bhutaragraha]ntaralaprāmanānāyā aha ā

bhutaragrahavivaram vyasardhahrtah svakarnasamvargah |
kaksyayam grahavegah yah bhavati sa mandanicocce || 25 ||

taragrahanam bhuvah ca yat antaram tasya anāyanopayah ucyate |
bhutaragrahavivaram bhuvah taragrahasya ca yat antaram tat
bhutaragrahavivaram bhavati iti vaksyati | vyasardhahrtah
svakarnasamvargah | vyasardham trijya | trijyaya hrtah
vyasardhahrtah | svakarnayoh samvargah svakarnasamvargah |
etat uktam bhavati ā mandoccakarnasya sighroccakarnasya ca yah
ghatah sah svakarnasamvargah vyasardhahrtah | kaksyayam
grahavegah | tavat ucchritayam [kaksyayam] grahasya yah
mandasighroccaphalajanitah vegah sa tasya bhutaragrahavivarasya agre
bhavati iti | atah eva bhutaragrahavivaram viksepānāyane bhagāharah
|

apare ahuh ā na bhutaragrahavivaram bhagāharah | kah tarhi?
vyasardham | yasmat etat atra trairasikam ā yadi trijyaya
svagrahābhihitaviksepah labhyate, anāya
abhistagrahasvapatavivārantaralamsajyaya bhujajyaya kim iti | na
etat samyak avasiyate | yadi idam eva trairasikam syat, tada
naksatratāragrahasasiyogah sarvada tasyam eva disī
tulyaviksepavivarah syuh, naksatratāranam
uccanicagatyasambhavat | drsyante ca ami grahanaksatranam
durasanna[vasat] bhedamsumardanasavyapasavyayogagata[yah | yadi
vyasardha]m eva bhagāharah syat tada sarve eva tulyagatayah syuh |
bhutaragrahavivaram | bhutaragrahavivaravasat viksepah alpah
mahan ca naksatratāragrahayogesu labhyate | [alpe va] mahadviksepe
daksinottaradigvasat niyātaviksepantaradisah yogah upapadyante |
tasmāt bhutaragrahavivaram eva bhagāharah | etat api karma
trairasikadvayam | katham? yadi vyasardhatulyaya patantarabhujajyaya
yathasvam viksepah alpah mahan ca labhyate, tada ana[ya bhujajyaya
patantaropannaya kah iti viksepah labhyate | [atah] punar api
vyastatrainasikam ā yadi ayam viksepah kaksyamandale
vyasardhaviskambhe labhyate, tada paramarthapratimandale
bhutaragrahavivaraviskambhardhe kiyan iti | purvatrainasike
vyasardham bhagāharah asit, tat eva dvitiatrainasike vyastatvat
gunakarah | atah gunakarabhagāharayoh nastayoh,
patantarabhujajyayah viksepah gunakarah, bhutaragrahavivaram

bhagaharah, phalam istagrahasya viksepah | evam istagrahayoh
viksepavabhinadikkau visisyate, yasmat apakramamandalat tau
pravrttau | tatah tadvisesatulyam tayoh antaram bhavati, tatra api
tayoh unadhikaviksepavasat parasparapeksaya [tayoh
yamyottaradiktvam] | bhinnadikkau viksepau yojyate | yasmat ekah
apakramamandalat daksinena aparah uttarena, tasmad tadantaram
[viksepayoga]pramanam bhavati | viksepaliptantaracaturbhagah
angulapramanam vacyam | yada punar antarlptah na syuh, alpah
va [syuh] tada tayoh anyonyasesat chadanam ekadesat chadanam va
[bhavati] | tatra grahanavat
istagrahasamparkardhatadviksepa[vislesena yogena va]
sthityardhanadikanayanam |

[taragrahanam sphutayojanakarnanayanam]

atha naksatratagrahayogesu natilambanaparijñanartham idam karma
kriyate | "sasinañananamamsakah" [gitikaí, 7] iti atra
sasiyojanakarnah nadibhih gunitah sukradinam bhagaharah
bhavanti iti vyakhyatam | tena sasiyojanakarnah pañcabhih
gunitah sukasya yojanakarnah bhavati dasabhih guroh,
pañcadasabhih budhasya, vimsatya saneh, pañcavimsatya
angarakasya | yadi evam tarhi grahanam kaksyabhidhanam virudhyate |
na esah dosah | tavad kaksyasthah eva grahah, atra punar
nadigunakaraih drstiparikarma kriyate iti | ayam yojanakarnah
bhutaragrahavivaragunitah vyasardhahrtah sphutah bhavati |
etat api trairasikam ã yadi vyasardhaliptabhih etavanti yojanani
labhyante bhutaragrahavivaralptabhih kiyanti iti, athava
trairasikadvayaikikaranena abhistagrahasphutayojanakarnah
aniyate | katham? bhutaragrahavivaranayane vyasardham bhagaharah
asit, iha ca bhutaragrahavivarasvamadhyamayojanakarnabhyasasya
vyasardham eva bhagaharah | atah bhagaharayoh samvargah
mandoccasighrocakarnasvamadhyamayojanakarnabhyasasya bhagaharah |
phalam sphutayojanakarnah | tayoh ayam arthah sañjatah ã
mandasighra[karna]gunitah madhyamayojanakarnah
vyasardhakrtivibhaktah sphutayojanakarnah bhavati | mandanicocce
mandasya mandoccasya ucce nice ca anitah mandakarnah eva anena
vidhina sphutikrtah iti |

[grahasphutikarane visesah]

atha vivasvaddhanarnodayastamayavasat samanyasarvagrahanam
sphutaganitavidhivisesah abhidhasyate | tat yatha ã savituh
bhujaphalena ravyadibhuktayah gunitah khakhasadghanena vibhajya
aptakala grahesu bhujaphaladhanarnavasat kriyate | tat vicaryate ã
idam karma anupadistam katham avagamyate? na esah dosah |
upadistam eva etat ã "budhahnyajarkodayat ca lankayam" [gitikaí,
4] iti | arkodayavadheh gateh etesam pratipacchedau iti upadesat
arkah hi sphutaganitavagatateh eva udayasikharamadhyaste iti
sphutasya arkasya udayah parigrhyate | sphutagatih ca madhyama eva

svabhujaphaladiliptabhiih upacitapacita va iti atah
bhujaphalaliptabhiih pranatulyabhiih trairasikam kriyate ã yadi
ahoratrpranaih khakhasadghanatulyaih
vivasvadadisphutabhuktayah labhyante, bhujaphalaliptabhiih
pranatulyabhiih kim iti | asam bhujaphalaliptanam pranatulyatvam
iti | atra ucyate ã ravyudayat eva jyotiscakradeh api udayadih iti
vyakhyatam | tena pravahaksepata madhyamah sarvada svabhujaphalena
adhikah unah va bhavati | yada adhikah tada jyotiscakram
bhujaphalaliptatulyam ravigatyajiyate, [unah cet
bhujaphalaliptatulyam ravigatyapaciyate] iti | anaya parikalpanaya
jyotiscakrasambandhinyah tada bhujaphalaliptah bhavanti,
jyotiscakraliptah pranah ca tulyah iti | atah tasam
pra[natulyabhujaphalaliptanam abhavah, aharganataga]tah
[sakalah suryah] yada svocatulyah tada eva udaye bhavati iti |
anyatha tatra api bhujantaraphalam kriyate eva | arkah hi
sphutagani[tavagateh eva udaya]sikharamadhyaste iti |

evam etesam vivasvadadinam grahanam sphutagatayah
suryodayavadheh bhavanti iti atah ravi[vasat eva upacayapaca]yatmakam
phalam kriyate | desantaracaradalakarmani ca anaya eva upapattya |
ardharatrastamayadinamadhyasamsthitasurya[t trairasikam] ã yadi
sastya nadibhiih yathasvama madhyama bhuktih labhyate tada
pañcadasabhiih ghatikabhiih trimsata pañcavatvarimsadbhiih ca
kim iti [phalali]ptah audayikebhiih grahebhiih visodhyante, tatah
tena ravyadayah tatkalikah bhavanti | tesam ca sphutaprakriya
purvabhiihita eva | [dinamadyardharatrayoh cara]dalakarma na pravartate
| ksitijamandalapraptyatikranti ravyudayastamayoh eva iti | evam
adityagatyavadhayah grahah |

yada punar para[sya grahasya raveh iva] kalpyante tada
candroda[yajña]nena udayakalam eva avagatyatadudayakalavadhayah
kriyante |

[tithipratipacchedaparijñanam]

evam yathopadistaganitaprakriya[ya tithi]pratipacchedaparijñanaya
ucyate | tat yatha ã sphutasasinah sphutah ravih apaniyate,
yasmata tithih sasimasavasata bhavati tena "ravisasiyogah bhavanti
[sasimasah" [kalakriyaí, 5] iti sphutavidho]rinah apaniyate |
yathasambhavam atra bhaganah na sambhavati iti rasyadayah eva
rasyadibhiih apaniyante | athava ka[lpaditah ye ravighaganah]
bhuktah te sasibhaganebhiih visodhyante, rasyadibhiih
rasyadayah iti | tatra avasistah sasimasadayah bhavanti |
[masanam prayojanabhavah i]ti masah tyajyante |

tatra ye avasistah rasyadayah vartamanasasimasasya
avayavabhutah taih liptikrtaih traikasi[kam ã yadi
khakhasadghana]tulyena suryacandramasoh visesena sasimasah
labhyate tada abhiih candradityavisesaliptabhiih kiyacchasimas[ah

iti sampurna]masam na prayacchati iti divasah kriyante |
"trimsaddivasah bhavet sa masah" [kalakriyā, 1] iti trimsatkah
gunakarah | tatra gunakarabagaharayoh apavartane [trimsatah
trimsadbhagena ekam] khakhasadghanasya tavadbhagena saptasatani
vimsatyadhikani | saptasatya vimsatyuttaraya
ravicandravaraliptah vibhajyante | [phalam gatathayah
va]rtamanasasimasasya suklapratipatpravrtaḥ, tatra sesaliptah
vartamanatitheh bhuktah, tadvisuddhah bhagaharaliptah bhojyah
iti | atah tabhīh bhuktabhojyaliptabhīh traīrasikam ā yadi tat
ahah suryacandramasoh sphutabhuktyantaraliptabhīh ekah
sasidivasah labhyate tatah abhīh bhuktabhojyaliptabhīh kiyan
sasidivasasya labhyate iti, tatra divasesu bhagam na prayacchanti iti
nadyah kriyante | "sastih nadyah divasah" [kalakriyā,
1] iti sastya sangunayya sphutabhuktyantaraliptabhīh
bhagalabdah bhuktabhojyah titheh nadyah suryodayavadheh
gatah gantavyah va bhavanti iti |

[suryacandramasoh samalīptikaranam]

istakalavadheh va parvani samalīptavidhanam | gatagantavyatam
parvanah vidhaya gatagantavyalīptabhīh traīrasikam | tat yatha ā
yadi suryacandramasoh taddinasphutabhuktyantaralīptabhīh
suryacandramasoh sphutabhuktiḥ yathasvam labhyate tatah abhīh
gatagantavyatithilīptabhīh kiyatyah sphutabhuktilīptah iti labdhah
līptah ravau gantavyaparvani prakṣipyante, sasini ca | atha
gataparvani tayoh eva yathasvam traīrasikayatalīptah visodhyante |
evam gantavyagataparvanah paryavaśanakalīkau samalīptau bhavatah iti
ganitapade api asmabhīh "bhukteḥ vilomavivare" [ganitā, 31] iti
asyam aryayam samkṣepatah abhihitam iti kṛtvā iha tu vistareṇa
pradarsitam |

[candranaksatrapratīpacchedaparijñanam]

candrayuktena naksatreṇa vyavaharah iti pratyaham
candrayuktanaksatrapratīpaccheda [parijñanam] kriyate | tat yatha ā
sasilīptabhīh traīrasikam ā yadi mandalalīptabhīh
khakhasadghanatulyabhīh saptavimsatih naksatrāni labhyante
tatah [abhīh candragatalīptabhīh kim iti | atra
gunakarabagaharayoh apa]vartanam kriyate | saptavimsateḥ
saptavimsatibhagena ekam khakhasadghanasya api tavatbhagena astau
[satani, atah sasilīpta]nam astabhīh sataih bhage
naksatranam asvinyadinam [yani gatani tesam samkhyā] labhyate
| sese gatagantavyam kṛtvā vartamanasya naksatrasya gatagantavyah
nadyah sadhyante | katham? yadi sphutabhuktya sastih
nadyah labhyante, abhīh gatagantavyalīptabhīh kiyatyah iti
gatagantavyanadyah labhyante | sasibhukteḥ
ahoratrakalavadhinispannatvat, ahoratrasya ca pramanam sastih
nadyah iti sastya traīrasikam kriyate || 25 ||

iti bhaskarasya krtau aryabhatatantrabhasye kalakriyapadah
samaptah ||

golapadah

[mangalacaranam]

namah sanmangalajñanapurnakumbhaya rajate |
surasurasiroghrstapadapithaya vedhase ||

[golabandhah]

kalakriyanantaram golam, "trini gadati ganitam kalakriyam golam" iti
uktatvat | gamyate jñayate asmat iti golam | kim punar asmat gamyate?
grahabhramanadharitrisamsthanadini sarvam | evam
paramarthajijñāsavah hi asatyapurvakam satyam pratipadyante | tat yatha
bhisah hi utpalanaladisu siravedhanadini pratipadyante,
yajñasastravidah suskestya yajñadini [pratipadyante],
vaiyakaranah prakrtipratyayalopagamavarnavikaradibhih
sadhushabdham pratipadyante, evam atra api samvatsarah
vrttasalakasutavalambakadibhih ksetraganitavisesaih
paramarthikam golam pratipadyante | tasmad dinmatrapradarsanam eva etat
arabhyate, asakyatvat asesapradarsanasya | kah hi citrayan
nimesonmesadi api citrayati | tasmad sriparnivañculakasthayoh
anyatamam ardhavrttacakrasvarupam krakacikaih vrttam ekam nispadayet
| tatah sughatitardhavrttadvayena tribhih va
sughatitavrttasakalaih vrttam ekam nirmapayet | tatra
vrttasakalasanghacchedah trayah
surapunkhaparsvacchedavayavardhacchedah iti | tatra etesam
anyatamena vrttasakalani anyonyam ghatayet | tamrakilakaih tatra evam
nispannam ekam vrttam purvaparam nidhaya dvitiam daksinottaram
upari adhah ca janitasvastikam svastikasampate ca mandaladvayam
ardhacchedena chitva tatha samyojyam yatha ekam eva vrttam laksyate |
tau vihitardhacchedena svastikacatustayam pravesya niscalam nidadhya
tamrakilakaih niscalikriyate |

tatah tayoh mandalayoh bahih parikaravat
dikcatustayajanitasvastikam anyam tatha eva ardhacchedena
svastikacatustayam pravesya niscalam nidadhyat | purvaparamandalam
sastyankankitam karayet, yatha ekaikasmin caturbhage pañcadasa
pañcadasankah syuh | te ca ahoratraghatikah | evam parisesam
mandaladvayam api, ekaikam sastisatratrayankitam [karayet] |
tani visuvat [yamya uttaraksitija]mandalani | tat tulyam eva aparam
mandalam sastisatratrayankitam purvasvastike aparasvastike ca
tiryak tribhagacchedam krtva dvau tribhagau mandalapradesasya
svastikam ghatayet | yatha va mandalatrayasampatam ekam eva laksyate
tatha avachedah kalpaniyah | purvaparakaksinottaramandalayoh
yah adhah svastikah tasmad uttarena uttarasalakayam
caturvimsatibhage tatha eva ardhacchedena svastikam karayet | upari api
tatha eva uparisvastikat daksinena [daksina]salakayam

caturvimsatitame bhage svastikam karayet | sarvatra niscalikaranam
tamrakilakaih | evam tiryak rasipadah vyavasthitah | sa eva
apamandalam iti ucyate | tavatpramanam eva anyat mandalam sañcari
yatra candramasah sampatah vartate tasmin badhva tatah uttarena
paratah nivatitame bhage yatha ca ardhapañcamabhagah tasya ca
apakramamandalasya ca antare bhavanti tatha vidhaya patabhage
cakrardhantare badhiyat | evam tatah daksinena navatitame bhage
ardhapañcama bhagah tasya apakramamandalasya ca yatha antare
bhavanti tatha nidadhyat | evam tat vimandalam, tat eva
viksepamandalam iti ucyate |

evam anyesam api svebhyah svebhyah patabhagebhyah api mandalani
| budhasukrayoh sighroccabhyam | svahoratra mandalani api
sañcarini ā visuvatah uttarena mesapakramakasthatulyantare
purvaparayatam mandalam mesasya ahoratramandalam,
vrsantapakramatulyakasthantare vrsasya,
mithunantapakramatulyakasthantare mithunasya, tani eva utkramena
karkatakasimhakanyanam; evam [visuvatah] daksinena
tulavrsicadhanusam svahoratra mandalani, tani eva utkramena
makarakumbhaminanam | svahoratra mandalesu daksinottarayatani
sutrani badhniyat | tesam ardhani apakramajyah | mesasya
ahoratramandalena unmandalasya yatra sampatah tatra sutrasya ekam
agram badhva minasya ahoratramandalasampate dvitiyam agram
badhniyat | bhumadhyavabhedisutram visuvata saha badhniyat, tasya
prathamasutrasya ca yatra sampatah tatra prathamasutrardham bhavati |
evam anyesam sutranam ardhani | tani sarvani
ahoratrapakramajyah santi | asakyatvat kvacit tu pradarsyante | yani
viksepapakramasvahoratra mandalani vyakhyatani [tani na]
pradarsyante | anyatha kalasamah golah bhramayitum na sakyate,
mandalabahutvat |

atha suslakshnam rjvim ayahsalakam gopucchayatavrttam
daksinottarasvastikavabhedinim nirgatobhayagram pañjarabharasaham
nidadhyat | tanmadhye bhuvam samavrttam mrda anyena va racayet | evam
ayam ekah eva pañjarah sarvesam grahanam | yasmat
bhinnakaksyasthah api grahah ekakaksyagatah eva upalaksyante,
tasmāt ayam eva ekah pañjarah | athava sarvesam eva prthak prthak
pañjarah yavat tavat paricchinnasvakaksyapramanah eva
pradarsayitavyah |

athava pañjarasya bahih [daksinottara]svastikayoh ayahsalakayam
tryangulam caturangulam va slakshnam saradandikam niscalam
nidadhyat | tatah yavattavatpramanaparicchinnakhakaksyaparikalpitam
ubhayatah cakrardhantaraktavedham [mandalam]
daksinottaravagahi nidhaya tasya madhye pañjaram pravesya tam
ayahsalakam ubhayatra parsvedhau pravesayet, yatha sa
saradandika pañjaradvayasimavagahini bhavati | tavatpramanam eva
anyadvrttam purvaparavagahi upari adhah ca janitasvastikam purvavat

nidadhyat | tat samamandalam | punar api tavat eva anyat mandalam
parikaravat dikcatustayajanitasvastikam
daksinottarasvastikasampatakrtavedham ubhayatra lohasalakam pravesya
niscalam nidadhyat | tat ksitijamandalam | evam ayam golah visuvati
samah eva avatisthate | visuvatah uttarena yavan aksah
tavatsu bhagesu khagolottarasvastikat upari vedham karayet,
daksinatah ca tavati eva antare [adhah] vedhah | purvavedhabhyam
ayahsalakam niskasya
svadesaksabhagapramanaparikalpitavedhayoh pravesayet | evam
svavisayaksapramanena avasthitah golah, tatra sarvam eva
pradarsayet | atha khagolapramanam eva anyadvrttam ubhayatah
cakrardhantaraktavedham uttarah nirgatayahsalakagram pravesayet |
dvitiyavedham daksinatah nirgatayahsalakagram pravesayet | tatra
tat niscalam nidhaya, tasya purvaparastastikasampate purvavat
tiryagbhedenah purvaparastastikayoh niscalam tat mandalam nidadhyat |
tat unmandalam iti acaksate | sarvani eva vrttani
sastisatratrayabhagankitani karayet |

anye punar samayamavanau khagolardhapramanam avatam khatva tatra
yatha ksitijamandalam upari bhavati tatha ardhanimagnam khagolam
nidhaya darsayanti | evam ayam kasthamayah golah kriyate |
kasthasambhave
paripakvalpasusiraslaksnavamsasalakavrttaih va golah
kriyate | evam golam badhva sarvam eva avasesam sastre vyakhyayate |
[bhagole apakramamandalam]

atra aditah eva tavat apakramamandalam aha ã

mesadeh kanyantam samam udak apamandalardham apayatam |
taulyadeh minantam sesardham daksinena eva || 1 ||

mesadeh mesasya adih mesadih, tasmāt mesadeh, kanyantam
antam paryavasānam, kanyayah antam kanyantam; mesadeh arabhya
yavat kanyantam | samam tulyam | udak uttarena | apamandalardham |
apamandalasya apakramamandalasya ardham, apakramamandalardham |
apayatam tiryak vyavasthitam | taulyadeh taulinah adih taulyadih,
tasmāt taulyadeh, minasya antam minantam; taulyadeh arabhya yavat
minantam | sesardham sesam ca tadardham ca sesardham, athava
sesasya jyotiscakrasya apamandalasamjñitasya ardham sesardham |
tat daksinena, daksinadigbhagena tadardham | "eva" sabdah
aryapuranartahm pratipaditah | athava evam ardhamatram api
pascardhe pradarsayati, yatha uttarena samam apakramamandalam tiryak
vyavasthitam, evam atra api daksinena tasya eva apakramamandalasya
ardham tiryak eva avatisthate iti | atra vina api "sama" sabdena
sadrasi pramanabhidhanat
udagdaksinapakramamandalardhasamatvam gamyate, samagrahanam
atiricyate | na atiricyate ã pratidesam aksavisesat rasinam
udayakalah visamah upalaksyante, tena samasabdāt rte

visamapramananam rasinam grahanam syat, tatah ca
aksavisesat mesadinam apakramajyah pratidesam
bhinnapramanah syuh | "sama"sabde punar kriyamane
tulyapramanarasigrahanam siddham, yasmat sarvah eva rasih
jyotiscakradvadasabthagah, sa ca trimsattrimsadbhagapramanah
iti | evam apakramamandalam visuvatah uttarena mesadeh kanyantam
tiryak avatisthate | tat eva tulyadeh minantam daksinena
visuvatah tatha eva avatisthate | katham idam anuktam gamyate
visuvatah iti | na esah dosah | udagdaksinena iti b(r)uvan
acaryah siddham eva visuvanmandalam pradarsayati | anyatha hi
udagdaksinena iti, etat anarthakam syat | udagdaksinasabda ca
digvacinau, dik vyavastha apeksaya bhavati | atah purvam
visuvanmandalam badhva tatah apakramamandalam badhyate |
sarvani eva mandalani sastisatratrayankitani kriyante,
yasmat sastisatratrayamsam jyotiscakram || 1 ||

[apakramamandalacarinah]

tasmin ca apakramamandale ke bhramanti iti aha ã

taragrahendupatah bhramanti ajasram apamandale arkah ca |
arkat ca mandalardhe bhramati hi tasmin ksiticchaya || 2 ||

taragrahah bhaumabudhabrhaspatisukrasanaiscarah,
taragrahendupatah bhramanti ajasram avyavacchedena, apamandale
apakramamandale, arkah ca na kevalam ete taragrahendupatah
apamandale bhramanti, arkah ca | tatra apamandale ajasram arkah ca
bhramati | arkat ca mandalardhe arkat punar mandalardhe
sadrasyantare, bhramati hi tasmin tatra mandalardhe, bhucchaya |
yatha stambhadinam pradipavasat chaya bhramati, evam bhuvah api
arkavasat, na kevalam taragrahendupatah iti |

patanam apakramamandale gatih ukta | tat kim idanim arkat
mandalardhe bhucchaya bhramati iti ucyate | na ca
bhucchayavyatirikta patah asti candramasah | na esah dosah |
sarvesam eva taragrahanam ye patah te apakramamandale
bhramanti | candramasah punar patah arkat mandalardhe
apakramamandale bhramati iti etat eva artham | "arkat ca mandalardhe
bhramati hi tasmin ksiticchaya" iti kathayati | nanu ca budhadinam ye
patah te niscalah tesam niscalanam katham
apakramamandalagatih ucyate ? na te niscalah, "navarasaha gatva
amsakan prathamapatah" [gitikaí, 9] iti atra "gatva"-sabdena
tesam gatyupadesat |

"taragrahendupatah" iti iyam arya kim artham arabhyate?
taragrahadinam gatih apakramamandale vijñayate | uktam ca
"bhapakramah grahamsah" [gitikaí, 8] iti sarve[sam gatimata]m
ete apakramabhagah iti | yadi ca gitikoktam api atra punar ucyate, tada
tarhi bahu atra abhidheyam iti | athava raveh cakrardhe bhucchaya
bhramati iti etat pradarsayitavyam syat, tat ca na

pradesantarapradarsitatvat | "bhuravivivaram vibhajet" [golaí, 39] iti
atra pradipacchayopapatya bhucchayanayanam upadiset | raveh cakrardhe
bhucchaya bhramati iti etat pradarsayati, yatah hi sankah
rjusthitasya pradipasya tat rjupravrttacchaya | tasmāt iyam aṛya
arabdhavya iti || 2 ||

[viksepamandalacarinaḥ]

grahanam viksepamandalapradarsanaya aha ā

apamandalasya candrah patat yati uttarena daksinataḥ |
kujagurukonaḥ ca evam sikhrocena api budhasukrau || 3 ||

apamandalasya | apamandalam apakramamandalam |
apakramamandalasya candrah | apamandalasambandhi candrah
"apamandalasya candrah" iti ucyate | apamandalasamsthitaḥ va
candrah apamandalasya candrah, yatha ā kusulasya vrihayah |
athava adhikaranartha iyam sasti, yatah hi ekasatam
sasthyarthah, apamandale candrah iti etasmin arthe | sa
apamandalavyavasthitaḥ candrah patat yati gacchati | patasabdena
candramasah viksepapakramamandalayoh samyogah abhidhiyate |
tasya ca samyogasya pratiksanam gatimattvat, sa gatih patasabdena
abhidhiyate, upacarat | atah sa gatisamjñitah patah yasmin rasau
yavatithe bhage vartate tasmin rasau tavatithe bhage
apakramamandalapramanam eva anyat mandalam tasmin badhva dvitiyam
ardham cakrardhantare tatha eva badhniyat yatha tat apakramamandalat
uttarena avatisthate tasya [prathamam ardham], yatha dvitiyam ardham
va daksinena upalaksyate | evam ca prathamapatat
apakramamandalasya uttarena viksepamandalam, dvitiyapatat ca
daksinena, ubhayatra cakracaturbhagantare yatha ardhapañcamah
bhagah tasya ca apakramamandalasya antare bhavanti tatha badhniyat
viksepamandalam | tasmin candramah bhramati | visuvataḥ uttarena
daksinena va tat apakramamandalam | tasmāt apakramamandalat
uttarena daksinena va viksepamandalam pradarsayet |

candrasya ca viksepamandalavyavasthitasya visuvataḥ ca antaranayane
iyam yuktiḥ ā sphutacandramasah bhujajyaya trairasikam ā yadi
vyasardhatulyaya bhujajyaya caturvimsatyapakramabhagajya labhyate
tataḥ candrabhujajyaya ka iti, apakramabhagajya labhyate | tataḥ
patat apakramamandalavyavasthitaḥ candrah daksinena uttarena
va yati iti uktavan | patavadhi pariññanaya sphutacandramasah
pataḥ visodhyate, tatra visesasya ya jya taya trairasikam ā yadi
vyasardhajyaya candraviksepabhagajya labhyate anaya istajyaya ka
iti, istaviksepajya labhyate | tayoh viksepapakramajyayoh
kasthikrtayoh tulyadikkayoh yogah, yasmāt apakramamandalat
parataḥ candrah vartate | bhinnadikkayoh visesah, yasmāt arat
apakramamandala[t viksepamandalam] candrah ca | gole yathartham
pradarsayet | yogavislesabhaganam ya jya tavat antaram visuvataḥ
candramasah ca | jyapramanena kasthapramanam uktam |

kujagurukonah ca evam bhaumabrhaspatisanaiscarah ca | yatha
candrah svasmat patat uttarena daksinena va
apakramamandalasthitah yati, evam eva kujagurukonah | etesam
viksepamandalani viksepapakramayogavisesayuktayah candravat
pratipattavyah | cakarah etat eva artham samuccinoti |

sighroccena api budhasukrau | sighrodbhutena budhasukrau patat
viksepamandalayoh bhamatah | etayoh sighroccau
apakramamandale patabhagapramanagati bhavatah | patabha[gat
tattatpradese] viksepamandale badhniyat | [evam tarhi] etayoh
apakramaparijñanam api sighroccat eva | kutah? apakramamandalat
patat viksepam bruvata taduccayoh apakramamandalasthitih
padarsita bhavati, yatah apakramamandalasthitah viksepamandale
pravartate | [te]na samyak idam avagamyate ā etayoh apakramam api
sighroccat iti | kutah viksepasya eva kevalasya? "sighroccena api
budhasukrau" iti sighroccat patapravrttat etayoh
viksepaparijñanam ucyate, napamaparijñanam | atah svatah e[va
e]tayoh apakramanayanam sighroccat | evam api apakramamandalasthitau
etau viksepamandale pratartate iti eta[t upapa]nnam eva | etat kutah
viksepaparijñanamatram eva etayoh? upayantarena viksiptam punar
svatah eva apamandalat pratiyaksena upadistam,
candraviksepapradarsitam eva arthavisesam sambhavayati | sarvesam eva
viksepah apakramamandalat uttarena daksinena ca | [patat]
cakracaturbhagantare yatha uktah [vikse]pabhagah
viksepapakramamandalayoh antare yatha avatisthante tatha
padarsyante | "apamandalasya candrah patat yati" iti etat api
gitikasu upapadista[patanusarena ava]dheyam | sasi
viksepamandalasthitapatat prabhrti viksepamandale pravartate,
iti etat anuktam na gamyate | "sighroccena api budhasukrau" iti e[tat api]
vaktavyam | atah avasyam etat aaryasutram vaktavyam || 3 ||

[grahanam kalamsah]

grahanam udayastamayaparijñanaya adityagrahantarabhagan aha ā

candrah amsaih dvadasabhih aviksiptah arkantarasthitah
drsya |

navabhih bhrguh bhrgoh taih dvyadhikaih dvyadhikaih yatha
slaksnah ||4||

candrah amsaih dvadasabhih | ayam amsasabdah samanyena
vibhagamatravaci | tena "samanyacodanah ca visese avatisthante"
iti amsavisesesu avasthapyante | visesah ca kalamsata | ete
kalavibhagah | te kalabhagah ucyante | "pranena eti kalam bham"
[gitikaí, 6] iti uktam | tena ucchvasapranasya liptasamjñatvam |
tatah pranam saptasatasya vimsatyadhikasya [720] dvadasa
bhagah, ghatikadvayam iti arthah | yatah ghatikadvayasya
pranah saptasatani vimsatyadhikani [720] | athava suryat
pascat prak va kalena antaritah grahah yasmat [drsya tasmāt]

kalamsatvam | evam kalabhagaih dvadasabhih antaritah candrah |
aviksiptah, na viksiptah aviksiptah | arkantarasthitah | arkat
antaram arkantaram, tasmin arkamtare dvadasakalamsa-pramanena
aviksiptah vyavasthitah, nabhasi vyapetabhratamasi laksyate |

yada punar asau viksiptah ghatikadvayat unadhike kale drsyate,
yasmāt arkat uttarena viksiptah candrah golasya uttaronnatvat une
api ghatikadvaye kale drsyate, daksinaviksiptah ca unnatvat
golasya daksinena ghatikadvayadhikakale drsyate | tasmāt uktam
aviksiptah iti | tasmāt viksepakarmakrtva etat antaram alocyate |

navabhih bhrguh | tatha eva kalabhagaih navabhih
arkantarasthitah aviksiptah bhrguh drsyate | navabhih
kalabhagaih viksiptasya viksepakarma candravat eva | bhrgoh taih
| bhrgoh sukasya ye bhagah | navabhih bhrguh taih
dvyadhikaih dvyadhikaih iti etavata siddhe punar bhrgugrahanam kurvan
acaryah jñāpayati ā bhrgoh iyam kashabhagah nava iti,
tebhyah eva navabhyah gurvadyantarabhagapratipattih | anyatha hi ayam
bhrguh atah nyunesu api trisu catursu va antaritah vakrakale
udayastamayau kurvan laksyate iti etat punar bhrgugrahanam | taih
dvyadhikaih dvyadhikaih iti vipsagrahanam ca
bhagadvayantaragrahanartham | anyatha hi sarvesam eva nava eva
bhagah syuh |

yatha slaksnah | ete grahah slaksnah
parihyamanasarirah pratipaditah tatha dvyadhikaih dvyadhikaih
arkantarasthitah aviksiptah santah drsyante | uktah ca esam
yathaslaksnakramah ā
bhrgugurubudhasanibhaumah sasi-na-ñā-na-na-mamsakah |
[gitikā, 7]
iti | bhrgoh bhagaih dvyadhikaih brhaspatih drsyate
sadbhagonaghatikadvayena, taih dvyadhikaih brhaspateh
trayodasabhih sadbhagottaraghatikadvayena budhah, budhabhagaih
dvyadhikaih sanaiscarah sardhena ghatikadvayena,
sanaiscarabhagaih dvyadhikaih bhaumah
sadbhagonaghatikatrayena, etavadbhih kalabhagaih antaritah
drsyante iti uktam | adarsanam punar esam katham avagamyate? kecit
tavat ahuh ā etavadbhih eva bhagaih | kutah? tulyata
samhitayam | arkantarasthitah drsyah adrsyah ca | katham
etavadbhih eva bhagaih drsyah adrsyah ca? yada arkat
niskramati grahah tada tavadbhih eva drsyate, yada sa eva arkam
pravisati tada [tavadbhi]h eva antaritah na drsyate | etat ca [na] ā
yavata niskramatah pravisatah va grahasya tulyam idam antaram, tena
drsyena va grahena bhavitavyam adrsyena va | sa tavat
istakalamsakaih drsyah eva upalabhyate | tasmāt
tulyasamhitavyakhyanam asat iti | katham tarhi? ucyate ā etavadbhih
eva bhagaih arkantarasthitah niskramat pravisat va drsyate |
unaih atah drsyate iti arthat avagamyate, adhikaih punar nitaram

drsyate iti etat asastrajñah api janati |

kalanayanam punar atra desantaraksavisesarasyudayapramanaih
parikalpyate | tat yatha ã yadi trimsata svadesarasyudayakalah
labhyate tada idanim nispannarkagrahantarabhagaih kah iti, kalah
labhyate | sa yadi abhistagrahantarakalena tulyah tada asau grahah
drsyate, une astam gatah, adhike nitaram drsyate | athava
svadesarasyudayena trimsata ca trairasikam krtva sarvarasisu
antarabhaganayanam ã yadi rasyudayakalena trimsadbhagah labhyante
tada istagrahantarabhihitakalena kiyantah iti sarvarasisu
antarabhagah labhyante | taih va sakrtsiddhah eva antarabhagaih
istadese grahasya darsanam vaktavyam | grahanam
purvodayastamayoh idam karma | aparodayastamayoh
tatsaptamarasyudayakalena etat parikalpanam, yasmat udayarasivasat eva
astam rasayah gacchanti || 4 ||

[bhugrahadinam prakasahetuh]

dharitrigrahanaksatrataranam prakasahetupradarsanaya aha ã

bhugrahabhanam golardhani svacchayaya vivarnani |
ardhani yathasaram suryabhimukhani dipyante || 5 ||

bhuh prthivi | grahah suryadayah | bhani jyotimsi
naksatrani | bhuh ca grahah ca bhani ca bhugrahabhani, tesam
bhugrahabhanam | golardhani | dharitryadinam sarirani golasabdena
ucyante | atah tesam golanam ardhani golakarasarirardhani iti
yavat |

katham ete grahadayah golakarasarirani pratipadyante? bhuvam tavat
anye sakatakaram darpanavrttakaram ca manyante | na etat evam |
yatha golakara bhuh pratipadyate tatha uttaratah vaksyami | katham
punar atra ami grahah golakarah pratipadyante? atha ca
darpanavrttakarau suryacandramasau laksyete, evam anye api | anyat ca
ã sthityardhadiparilekhanaprakriya ca golakarasariresu na ghatate |
na etat asti | ete grahadayah golasarirah api santah
duradesavartitvat darpanavrttakarah upalaksyante | ya
sthityardhadiparilekhanaprakriya sa drgvisaya, tasyah
drgvisayatvat yathadarsanagatani eva bimbamsthanani
angikrtya acaryena uktam | athava golakaresu api
sthityardhadyupapattih sakyate vaktum | yasmat viksepadayah
bimbamadyat pravrttah tavat jñatva golakanam bimbardham
darpanavrttakarah iva yatha bhraman nispaditah samudgatah
tasyah udaram darpanavrttakaram eva upalaksyate, tasmāt
golakarat api sthityardhadyupapattisiddhah ca | atah paramarthatah
eva golakarah, anyatha hi candramasah sitaksayavrdhah
darpanavrttakare bimbe na samvadete | tasmāt golakarasarirah
ete | uktam ca ã

suryah agnimayah golah candrah ambumayah svabhavatah svacchah |

iti |

svacchayaya vivarnani | sva cchaya svacchaya, taya svacchayaya
ardhani esam [vivarnani aprakasatmakani krsnani iti arthah,
na tatah anyatkarana]m asti vaivarnyasya | yatha ghatasya
atapasthasya ekam parsvam svacchayaya eva vivarnam, evam atra api |
ya[ni ardhani] prakasante tani suryabhimukhani | ardhani | tesam
golanam ardhani, yavanti avasistani svacchayavaivarnyani
vyatiriktani | yathasaram | alpanam alpani, mahatam mahanti |
suryabhimukhani, adityabhimukhani | dipyante cakasanti |

[candrasya sitabhagah]

yadi ardhani grahanam suryabhimukhani cakasanti tada kim iti
candramasah ardhabimbam sarvada na cakasti? cakasti eva | kim iti na
upalabhyate? ucyate ā amavasyayam candramasah upari adityah tada
tasya candramasah upari yat bimbardham tat asesam avabhasayati |
candrasya amavasyopalaksitoparibimbakendrat yatha yatha pascad
adityah avalambate tatha tatha bimbakendram api aparatah avalambate |
tat kendravasat candramasah bimbardham yavat eva amavasyopalaksitam
bimbapardhyardhavadhah avalambate tavad candramasah bimbam asmabhih
upalaksyate | sesam uparisthitatvat na upalaksyate | suryabhimukham
api savitrkara[t chaditam api na drsyate] | tasmad yavat yavat
candramasah bimbam savitrbinbat slaksnam avalambate tavan
svacchah candramasah suklam upalaksyate | tena ca ami
jyotsnavitanavabhasinah candrakarah | tena tarhi savitrmaricayah
tu sa[lila]maye svabhavat eva [svaccha]candrabimbe sammurcchitah naisam
dhvantam avadhvamsayanti, yatha darpane jale va divasakarah
sammurcchitah santah grhantargatam tamah ksapayanti |

[candrasrngonnatih]

anyat ca ā yah yah candrabimbapradesah savitrmarge rjutvena
vyavasthitah sa eva srngonnatah upalabhyate, na itarah | tatha ca tat
jjñāsavah karma kurvanti | tat yatha ā suklapratipadadisu
suryardhastamayakalika suryacandramasau krtva
suryonacandrotkramajya grhyate | sa yasmat pratidivasam upaciyamana,
candramasah suklam upaciyate | utkramajya ca upaciyamanapramana |
tena taya utkramajyaya traikasikam ā yadi vyasardhatulyaya
utkramajyaya sphutacandrabimbardham upalabhyate, tada anaya utkramajyaya
kiyat iti, tat kalasitamanam labhyate | suklastamyah paratah ya
sitavrddhih sa kramajyavasat upaciyamana laksyate iti kramajya
grhyate | tah kramajyah purvopacitavyasardhajyasu praksipya
traikasikam kriyate | athava ā tabhih eva kramajyabhih
candrabimbardhena traikasikam krtva yat labdham candrabimbardhe
praksiptam sitamanam bhavati | suklapratipadadisu yatha candramasah
sitamanam vardhate tatha krsnapratipatprabhrtibhyah sitamanam
utkramena apaciyate | tena suryacandramasoh visat rasisatkam
apaniya tatha eva karma kriyate |

[candrasya darsanakalah]

darsanakalah hi yavantam kalam candrah drsyate | yavata kalena
udeti tat anayanopayah ā suklapakse tavat udayarasivasat eva
jyotiscakragatih iti atah yavantah suryat candrarasibhagah
tavantah eva udayavadheh svadesarasyudayapranah parigrhyante |
tat yatha ā astamayike savitari sadrasayah pariksipyante sa
suryat saptamah rasih bhavati | tatha ca candramasi sadrasayah
pariksipyaya suryagatarasibhagan trimsata visodhayet sesam
suryasya agatarasibhagah | tat
sadrasiyutasuryavartamanarasyudayena sangunayya trimsata
vibhajet, labdham pranah | tan ekatah vinyaset |
suryagatarasibhagan ca sadrasiyutasurye praksipyaya tavat
svadesarasyudayapranah samkalaniyah yavat
sadrasiyutacandragatah bhagah | tatah
sadrasiyutacandragatah bhagah tat rasyudayapranaih
sangunya trimsata vibhajet, labdham pranah | tan
purvasankalitapranah ca sarvan ekatra nyastapranesu praksipyaya
sadbhih bhagah, labdham vighatikah, sastya ghatikah |
evam ghatikadilaksanah darsanakalah | tavata kalena
suryacandramasoh gativisesah asti iti avisesakarma pravartate | tat
yatha ā yadi sastya ghatikabhih suryabhuktih candrabhuktih
va labhyate tatah anena darsanakalena te kiyatyau tayoh bhukti iti |
suryabhuktilabdham sadrasiyuktasurye praksipet, candrabhuktilabdham
api sadrasiyutacandramasi praksipyaya tavat idam kuryat yavat
avisesah | tatra yah avisistah kalah sa darsanakalah |
tavantam kalam sarvayam sasi drsyate | yah ca
sadrasiyuktah candrah avisistah tasmāt cakrardham apanayet
tavan candrah darsanakalaparismaptau astam eti |

atha kascit yadi kiyata kalena a[na]stamite savitari candrodayah
bhavisyati iti etat jijñāsuḥ, idam karma kuryat | tat yatha ā
avikrtastamayakaladityabhagebhyah prabhrti tavat pranah
samkalaniyah yavat avikrtasitamsoh gatabhagapranah |
tan purvavat ghatikah krtva [dina]pramanaghatikabhyah
visodhayet | tatra yah sesah sa divasasesah | tavata
divasasesena tada candrodayah bhavisyati | atra api
suryacandramasoh avisesakarma pravartate | tat yatha ā asam
nadinam yah yah bhogah tena adhikau suryacandramasau iti atah
tabhyam apaniya apaniya avisesah kriyate | avisesitah
darsanakalah tavata kalena divasasesah eva candrodayah | yah
asau avisistah candrah tavan tatra divasasesodayakale candrah
|

athava prathamaitadivasasesacandrodayakalena candramasah bhuktim
sangunayya sastya vibhajet | labdham candrat visodhayet | sa
tavat divasasesakalikalah candrah bhavati | tatah
prathamaitadivasakalena udayalagnam kuryat | tat udayalagnam tena

divasasesoditacandrena tulyam yada, tada divasasesam
candrodayakalah | atha yadi tasmāt lagnat unah candrah tada
prathamātam uditah iti | tayoh lagnacandrayoh antarialpranan
prathamānitadivasasesakalat visodhayet | tesam ca pranānam
yavati candrabhuktiḥ traīrasikena labhyate tavati
prathamādivasasesoditakalacandrat visodhyate tavan candrah
divasasesoditah, tavan ca divasasesakalah | candrah ca yada
adhikah tada purvavat tadantarapranan divasasesakale praksipet
tavatam pranānam candrabhogam candramāsi praksipet, tavat karma
yavat avisesah | athava prathamastamayikacandrat eva
antarotpannadivasasesakalabhogah candramasah visodhya tat
kalalagnakramena avisesakarma kriyate |

atha yadi udayalagnat candrah adhikah tada [kiyan]nadya abhyudeti
candrah iti tadantarapranan prathamānitadivasasese praksipet | tat
bhuktim candramāsi praksipet tavat yavat avisesah | evam udayalagnam
candrah ca krtah bhavati, divasasesacandrodayakalah ca | evam
yavat paurnamāsi tavat darsanakalanayanam | paurnamāsyam punar
tavat eva antaraghatikah yadi dinapramanaghatikabhyaḥ unah
bhavyeḥ tada anastamite aditye candrodayah, yadi atiriktah tada
astamgate | ubhayatra api antarakalapramanena avisesakarma
anantarakarmavat eva | kṛṣṇapaksapratipadadisu ca
candradityantaraghatikabhyaḥ dinapramanaghatikah visodhya
sesa[ghatika]bhīḥ bhuktiḥ traīrasikena suryacandramasau sañcārya
punar tayoh antaraghatikabhyaḥ dinapramanaghatikah visodhayet |
sesaghatikabhīḥ candradityau tadantaralaghatikah iti
adyavisesantam karma kriyate, tatra avīsistena kalena
[suryastamayāt pascāt candrodayah | evam eva avīsistena kalena]
suryodayat prak candrodayah |

atha anastamite savitari kiyata kalena candrah astam yasyati iti etat
jijñāsuḥ idam karma kuryat | tat yathā ā suryodayakalotpannam
candramasam kṛtvā tatra rāsīṣatkam praksipet | [tataḥ] prak
candrodayah [jñātavyah] | atha audayikat adityat
sadrāsīyuktanīśakaravadheḥ svadesarāsyudayavidhanena yavatyah
ghatikah taḥ avīśesyante | katham? tasam traīrasikena yavat
candramasah bhuktiḥ tam candramāsi praksipet iti atah punar api
tasmāt adityat sadrāsīyuktacandravadheḥ purvavat ghatikah
tavat yavat avisesah | tatra yah avīśesitah ghatikah
tavatibhīḥ divase vyatitabhīḥ candrah astam eti | divasapramānat
visodhya sesam dinasesaghatikah ca | atra yah avīśistah
candrah sa tasmin kale tavan, yah ca sadrāsīyuktah candrah sa
tasmin kale udayalagnam iti |

[candrasya yamyottarapradesah]

atha kascit kiyata kalena suklastamya parataḥ candrah
gaganamādhyaḥ avagahate, kiyan va tatra candrah iti jijñāsuḥ, idam
karma kuryat | atha tatkalat parataḥ svadhīya asannau

madhyalagnanisakarau abhyuhya, tatra yadi madhyalagnanisakarau tulyau
syatam tada tavan candrah tavata eva kalena gaganamadhyam
aroksyati | atha yadi adhikah candrah tada na adya api prapnoti
gaganamadhyam | tatra madhyalagnacandrantarakalam svadhiya abhyuhitakale
praksipyam madhyalagnacandrau kuryat yavat tulyau iti | atha madhyalagnat
unah candrah tada tadantaralakalam svadhiya abhyuhita[kalat
visodhya] madhyalagnacandrau tavat kuryat yavat madhyalagnacandrau tulyau
syatam | evam prasadhitagaganamadhyadhirudhamrtadidhiteh
apakramaviksepaksaih madhyacchaya prasadyate |

[candrasrngonnatiparilekhanavidhih]

atha candragracandrasankvagravayoh tulyadikkayoh yogah,
bhinnadikkayoh visesah, tat yogavisesatulyam istakale [bahu]h
candramasah | sa ca antarlatah suryagrava saha ekadikkam visesyate,
yatah arkat eva uttarena daksinena va candrah sadhyate, na
visuvatah | vidikkayoh yojyate yasmat yogah arkacandrantaram | etat
chedyake gole va pradarsyam | evam parinisthitapramanam bhujam
suryat yamyam uttarayata prasadyate | candrasankuh kotih | sa
yadi suryat uttarena candrah tada bhujottaragratah purvaparayata
prasadyate | yada daksinena candrah suryat tada tasyah
bhujayah daksinagratah purvaparayata | evam bhujakoti
yathagatapramanena vinyasya bhujakotimastakavagahi karnah
duranirgatagrah prasadya kotyagrakarnasampate kendram viracya
candrabimbam alikhet | tasya candrabimbaparidheh aparatah
karnanusarena sitamanam nitva bindum kuryat |
candrabimbakendrapurvapare karnah, tat matsyavidhanat daksinottare
sadye | daksinottarekhacandraparidhisampate bindu kriyete | tatah
tabhyam purvavihitabinduna ca tatha chedyakavidhanena tat
bindutrayasirahsprgvrttam alikhet | tasya vrttasya
candrabimbaparidheh ca yat antaram tat candramasah suklam | atha eva
srngonnatih nabhasi upalaksyate |

suklastamyah paratah astakalodayalagnagrajyaya arkagravat karma
[kriyate] | candrodayalagnantarapranotpannah sankuh, kotih
aparabhimukhi tatha eva prasadyate | tatra yathagatam sitamanam
candrabimbapramanat visodhyam sesam asitam bhavati |
tat karnanusarena candraparidhipurvabhagat bimbantare asitamanam
nitva bindum kuryat | tena daksinottarabindubhyam ca purvavat
bindutrayasirahsprgvrttam alikhet | tasya candrabimbaparidheh ca yat
antaram tat asitam | krsnapratipadadisu ca
aparabhimukhaprasaritakotikarnagralkhitacandraparidhyaparabhagat
karnanusarena asitam antah purvavat vrttam alikhet | istakale
tu yatha pratyasannastodayalagnajyam arkagram parikalpya
tatkalcandrasankvagram apadya
istalagnacandrantarapranotpannasankukotyam candrah
parilekhanayah | evam sarvatra ksitijata upari vyavasthitasya candrasya
parilekhanaprakriya |

[grhapatalam vidarya srngonnatidarsanam]

atha sankubhujakotikarnapramanaparikalpitayantragre
grhapatalabimbantare
sisiradidhitiganitasitapramanasrngonnatih pradrasyate | tat
yatha ā samyak prasiddhagrhodare purvapararekhatah uttarena
daksinena va parikalpitangulapramanam arkagrasutram purvavat
prasarya bindum kuryat | sah arkabinduh | purvapararekhayah eva
daksinottaratah candragratah sankvagrasyoh
yogavisesajyangulatulyam sutram yatha agatadisam prasarya bindum
kuryat | sa sasibinduh | arkendubindvoh antarangulatulya bhujā |
tatkala[candra]sankutulya kotih avalambakah | tadanusarena
avalambakasthitya candrabimbanusarinya grhapatalam vidarayet | tatra
sankvagrasyatadandasirasi yathalikhitam tat
chedyakasitasrngonnatim arkabindunyastadrstih karnanusarena
utksiptavalambakangulapramanamastakasaktam sasalaksmānam
pasyati | evam eva grahah api grhodaravyavasthitaih darsaniyah iti
|

[ardhodite candre srngonnatikalpana]

ksitijamandalakrantardhabimbasya candramasah koteh abhavat na
parilikhyate | tatra udayastajyacandragre srngasya unnatih
parikalpyate | tat yatha ā yadi candragra daksinena udayajya
uttarena tada candramasah uttarasrngam prak pradrasyate, yatah
bhavrttacandrah daksinena vyavasthitah | bhavrttacandranusarena
ca suryamericayah candrabimbam karnagatya avagahante | yada punar
candragra uttarena udayajya daksinena tada candramasah
daksinasrngam prak pradrasyate | yasmāt candramasah
daksinena bhavrttah sthitah | bhavrttanusarena ca
suryamaricayah candrabimbam avagahante | daksinena tulyadikkayoh
visesah, candragra yada atiricyate tada candramasah
uttarasrngam prak pradrasyate, anyatha daksinam | uttarena yada
candragra atiricyate tada daksinasrngam prak pradrasyate,
anyatha uttaram | yada punar visesena na kiñcit antaram tada yugapat
ubhayasrngadarsanam | yada ca udayajya candragre na bhavatah tada
ca astamaye candramasah astalagnajyaya candragraya ca srngasya prak
pascāt va astamayam parikalpaniyam |

[candrasya sitasitahetuh]

evam candramasah sitasitasrngonnatidarsanakaladayah
savitrvasat eva | evam ca nirukte pathyate ā

tasya ekau rasmih candramasam prati dipyate |

na hi tena upeksitavyam | adityatah asya diptih bhavati |

susumnah suryasmicandramah gandharvah |

[vajasaneyasamhita, aī 18, mamī 40; taittiriyasamhita, 3.4.7.1]

iti api ca nigamah bhavati iti | tasmāt etena eva lingena candramargat
upari suryamargah iti, anyatha anupapatya | parisistah ca
taragrahah suryamargat upari durena vyavasthitah | tena tesam
aratsthitani golardhani sarvada sakalani eva cakasate |
urdhvamukhah suryamaricayah sada aradbhagam prakasayanti iti |
budhasukrayoh ca pratyasannavartitvat sarvatah bimbam avagahante
arkamaricayah pradipapratyasannagolavat tena tayoh api
asakalabimbatabhavah | yadi evam astamite savitari katham ete grahadayah
cakasate savitrikarabhavat ? na esah dosah | bhumeḥ durena
suryamargah | tena uparimukhanam suryamaricinam na vyavadhanaya
bhuh vartate | yatha ghatasya upari adhah durena avasthitasya
pradipasya ghatah na vyavadhanakaranam |
krsnapaksapratipadadisu candramasah bimbapurvabhagah
pratyasannah savituh iti tena tat suklam upalabhyate | ratnanam ca
adityakarah eva diptikaranatvam prapadyate | tena tani api ratrau na
prakasatmakani | uktam ca ratnapariksayaṃ ā

bhanoh ca bhasam anuvedhayogam asadya rasmiprakarena duram |
parsvani sarvani anurañjayanti gunaih upetah
sphatik[adayah hi] ||

[yat] upakhyanadisu ratnani eva dhvantam dhvamsayanti iti sruyate
tat upakhyana[m arthavadamatra]m eva |

anye punar anyatha manyante ā

svacchayaya arkasamipyat vikalendusamiksanam |

iti | svacchayaya candrah suklam upalabhyate, tasya suklasya
candramasah savitrsannikarsat vaivarnyam bhavati iti | kutah etat?
yadi svabhavatah suklasya candramasah suryasannikarsat vaivarnyam
syat tada suklapratipadadisu candrasya aparabhagah vivarnah syat
suryasannikarsat, na purvabhagah | tatha ca avanmukham candrabimbam
upalaksyate | tasmāt mithyajñanam eva etat yat saugataih ucyate || 5 ||

[bhugolasamsthanam]

bhadikakṣyabhusamsthanapradarsanaya aha ā

vr̥ttabhapañjaramadhye kaksyaparivestitah khamadhyagatah |
mr̥jjalasikhivayumayah bhugolah sarvatah vr̥ttah || 5 ||

bhani jyotimsi naksatrani | tesam bhanam pañjarah
bhapañjarah | yasmāt [bhani] samantatah viyati pañjarasthani iva
laksyante tatah anena darsanena etat uktam | vr̥ttah ca asau
bhapañjarah ca vr̥ttabhapañjarah | vr̥ttabhapañjaramadhyam, madhyam
antah, tasya vr̥ttabhapañjarasya | tatra vr̥ttabhapañjaramadhye |
kaksyaparivestitah kaksyabhih grahanam parivestitah
kaksyaparivestitah | khamadhyagatah, kham akasam, tasya madhyam
khamadhyam, khamadhyamgatah khamadhyagatah, akasamadhyasthah iti
yavat | katham akasamadhye niralambana bhuh avatisthate? [ucyate

ã svabhava]pradhanyat; yatha salilagnivayavah
kledadahanapreranatmakah, na tesam anyah asti kascit
kledadahanapreranaprayojakah, evam iyam api bhuh dharanatmika, na
ca dharyamanatmika | athava patanti bhuh, "patatu adhah" iti aha
| atha kim idam adhah nama | yatha asmadiyanam prthivi adhah, evam
prthivyah kim adhah? "adhah"-sabdah ca digvaci, disah ca
vyavasthapeksaya bhavanti | yatha yatra vivasvan udeti sa praci, yatra
astam eti sa para, yasyam adrsyah gacchati sa utara, sesa
daksina | asam antaralesu eva vidisah | evam upari adhah ca
prthivi apeksaya bhavatah | tena tasyah prthivyah na kiñcit
upari, na adhah, tasmāt patanabhavah bhuvah | evam ca prthivyah
ardham parivestya avasthitah samudrah na patiti | patantyam ca bhuvi
lostasilimukhadayah viyati ksīpta na bhuvam asadayeyuh |
bhuh mandam patati iti cet, sadhyate ca etat mayavidbhīh ca, viyati
khatakīlakah anasrayah bhavet | atha anye manyante ã sesena
anyena [va] bhuh dhriyate iti | tat uktam | sesadinam api avasyam
adharavisesah kascit kalpaniyah, [taya anyah a]dharah sya[t
tasya api anyah] iti anavastha | atha te svasaktya eva avatisthante
iti cet, bhuvah eva kasmāt sa saktih na parikalpyate | tasmāt jagatah
dharmadharmapeksaya sarvabhutadhatri bhuh niscala akase
tisthati | mrijjalasikhivayumayah bhugolah, pratyaksam yatah
upalabhyate | sarvatah vrttah | mrdadina kasthadina va
ayahsalakayam madhye samavrttavat avagantavyah | asya bahih
candradinam kaksyah darsayitavyah || 6 ||

[bhugolaprsthe praninam sthitih]

bhugolapradarsanaya aha ã

yadvat kadambapuspagranthih pracitah samantatah kusumaih |
tadvat hi sarvasattvaih jalajaih sthalajaih ca bhugolah || 7 ||

yadvat kadambapuspagranthih [samantat kesaraih] pracitah, vyaptah
iti arthah, tatha ayam bhugolah samantat jalajaih sthalajaih ca
pranibhīh avrttah | atha ye bhuvi vyavasthitah praninah
parvatadayah tesam katham avasthanam tat ucyate ã yatra yatra
praninah gacchanti tatra tatra tesam bhuh eva adhah, viyat upari
pratibhati yatha asmakam || 7 ||

[bhuvah vrddhyapacayau]

bhuvrddhyapacayajñanaya aha ã

brahmadivasena bhumeruparistat yojanam bhavati vrddhīh |
dinatulyaya ekaratrya mrdupacitayah bhavati hanīh || 8 ||

trnakasthabhasmadirupena vidyamanayah [bhuvah]
yojanavrddhīh bhavati | atah eva grhapadapatadagadikhatesu
ghatapitakadi upari upari avayavah labhyante |

dinatulyaya ekaratrya brahmadivasatulyaya ratrya | mrdupacitayah

bhavati hanih | mrdā upacita mrdupacita, tasyah
mrdupacitayah hanih bhavati | kena punar karanena yat upacitam
buvah tat pariksyate? brahmadivasavasane kila
samvartakabhidhanaih jaladharih vicchinnadharabhimuktena payasa yat
upacitam bhuvah tat pariksyate || 8 ||

[bhupramanam]

bhubhramanavacakapurvottarapaksapratipadanaya aha ā

anulomagatih nausthah pasyati acalam vilomagam yadvat |
acalani bhani tadvat samapascimagani lankayam || 9 ||

anulomagatih nausthah, kascit anulomagatih nausthah, pasyati acalam,
na calam vastugatya api sthiram, vilomagam yatha pasyati
saritsagarobhayatatasthitam vrksadikam, [tatha eva] ca bhumau
pranmukham bhramatyam upari[sthitah janah] nabhasthitani acalani
bhani pratilomagani aparagani pasyanti | tatha hi lankasthah bhani
samapascimagani pasyanti | lanka upalaksanamtram | evam anye api
pasyanti | tasmāt iyam bhuh eva pranmukham bhramati | niscalam
jyotiscakram | bhugatya taduparisthitah yah bhacakrapradesah
purastat sa udayan iva ca laksyate, yah tu madhye sa gaganamadyasthitah
iva, yah hi durenā sah astam gacchan iva laksyate | anyatha hi
niscalasya bhacakrasya udayastambhavah syat |

idam asya adarsanam | bhumandale bhramati [sati] jagat jaladhina
aplavet, bhugolavegajanitaprabhañjanena aksiptah
tarusikharaprasadadayah visiryeran | paksinah api viyati utpatan
na svanidam asadayeyuh | tasmāt dharitribhramane na kiñcit lingam
asti | tasmāt anyatha vyakhyeyam sutram | yatha anulomagatih nausthah
purusah calavastuni vilomagam pasyati, evam bhani calani
pravahanilaksiptani vegavasat lankayam yani vastuni tani
pratilomagani pasyanti; adhovyavasthitam bhuvam niscalam bhramantim iva
pasyanti | pratyakse api naksatrani praguditani aparam disam
asadayanti || 9 ||

[bhubhramanakaranam]

bhramanakaranam aha ā

udayastamayanimittam nityam pravahena vayuna ksiptah |
lankasamapascimagah bhapañjarah sagrahaḥ bhramati || 10 ||

udayah ca astamayah ca [udayastamayau | tayoh] udayastamayayoh
nimittam nityam pravahena pravahasamjñitena vayuna ksiptah
bhapañjarah, bhapañjarah api nityagatih eva, lankayam
samapascimah yah dikpradesah sa lankasamapascimah, tam gacchati
iti lankasamapascimagah, saha grahah vartate iti sagrahaḥ, bhramati
ksanam api na avatisthate |
yadi api grahaḥ pranmukham vrajanti tatha api bhapañjaraḥ ksaya
aparadiksankramanam kurvanti, mahata bhapañjaragatya niyamanah

laksyante, kulalacakrasthah kitah iva || 10 ||

[meruvarnanam]

merupramanam aha ã

meruh yojanamatrah prabhakarah himavata pariksiptah |

nandanavanasya madhye ratnamayah sarvatah vrttah || 11 ||

yojanam matra yasya sa yojanamatrah, pramane matranpratyayah |

prabhakarah, prabham karoti iti prabhakarah | [himavata

pariksiptah], himavata parvatena samantat vestitah |

[nandanavanasya madhye], nandanam vanam [devanam apsaroganaparivrtanam]

kridasthanam, tasya madhye | ratnamayah | ratnani

[suvarnarajata]muktapavalapadmaragamarakataprabhrtini, taih

nirmitah ratnamayah | [sarvatah] samantat | vrttah golakakarah

iti arthah |

atha pauranikaih laksayojanapramanah meruh pathyate tat

yuktirahitam | [lankatah yavat merumadhyam tavat yojanasahasram api na

asti, kutah tat ekadese bhavisyati | atha bhuh eva mahapramana

parikalpyate, tat ayuktam |] yat sapañcasatsahasram yojananam

bhuvyasamanam aksonnatiprasadhitam tat sopapattikam |

grahodayastamayamadhyahnicchayavanatilambanadibhih siddham utsrjya kim

anyat upalabhyate |

kim ca puranesu puskaradvipasya uparigatah vivasvan madhyahnam

karoti iti pathyate | laksayojananam kila jambudvipah, [tatah

dvigunottarah] samudrah [dvipah ca] sapta, saptamah ca

puskaradvipah | tat anakaih yojanasahasraih antaraih vyavasthitam |

tatra yadi madhyahnah vivasvatah syat asmakam uttaragolabhutvat

sankoh chayanasah [na] syat | drsyate tacchayanasah |

tasmat visuvati lankamadhye savita gacchati iti siddham | [visuvati

lankamadhye na savita gacchati iti taih eva uktam | tat ca atiduratvat

na ghatate | yadi patangavat utplutya gacchati tatah yujyate | tat ca

asakyam parikalpayitum, pratyaksaviruddhatvat |] tasmat dhruvonnatya

[anitam eva] bhuvah pramanam siddham | tatra mahapramanasya meroh

avasthanam eva na asti |

[yadi kathañcit mahapramanah eva meruh avatisthate tada sa kim

asmabhih na drsyate |] duratvat meruh asmabhih na drsyate,

athava nisprabhatvat tat na drsyate, na tarhi ratnamayah | kim ca yadi

mahapramanah meruh syat merusikharantaritvat bhavat uttarena

tarakah na drsyeran | tasmat tasya kanakagireh uparisikharapradese

eva sarvaratnamayah merusabdena ucyate || 11 ||

[merubadavamukhayoh sthiti]

kva bhupradese meruh, kva va badavamukham iti aha ã

svah meru sthalamadhye narakah badavamukham ca jalamadhye |

amaramarah manyante parasparam adhahsthitah niyatam || 12 ||

svah svargopalaksitah, meruh ca, sthalamadhye | narakah
badavamukham ca jalamadhye | amaramarah amarah devah, marah
narakasthah, te parasparam adhahstah manyante | yatah sarvesam
bhuh adhah, atah anyonyam adhahsthitah manyante | yatra uttarena
ayahsalaka bhuvam bhitva nirgata tatra pradese svargah meruh, yatra
daksinena nirgata tatra narakah badavamukham ca || 12 ||

[udayadivvyavastha]

prakrstadesantaravyavasthitan desan aha ã

udayah yah lankayam sah astamayah savituh eva siddhapure |
madhyahnah yamakotyam romakavisaye ardharatrah syat || 13 ||

lankanivasinam yah udayah sa eva siddhapuranivasinam astamayah,
[yatah lankapradesat adhah vyavasthitam siddhapuram] | madhyahnah
yamakotyam, yah eva lankapuranasinam udayah sa eva
yamakotivasinam madhyahnah, yatah lankapradesat purvasyam
bhuparidhicaturbhage yamakotih | yah lankanivasinam udayah sa
romakanivasinam ardharatrah, yatah lankatah aparabhage
bhuparidhicaturbhage romakam | evam ete
bhucaturthabhag[antarala]vyavasthitah sthalajalasanghivartinah
desah parasparam ahoratraturbhagakaladesantarapramanah
pradarsayitavyah || 13 ||

[samarekhasthanagaryau]

desantarapradarsanartham aha ã

sthalajalamadhyat lanka bhukaksyayah bhavet caturbhage |
ujjayini lankayah taccaturamse samottaratah || 14 ||

sthalamadhyat meroh arabhya jalamadhyat ca badavamukhat lanka
bhukaksyayah caturthabhage vyavasthita | bhuparidhih 3298 17 25,
caturbhagah 824 67 100 | etavati antare vyavasthita | ujjayini
sthalajalasanghivartilankayah samottare digbhage vyavasthita |
taccaturamse, tasya bhucaturthabhagasya caturthabhage | bhuparidheh
sodasabhagah 206 67 400 | etavati antare lankatah ujjayini |

lankojjayinisamadaksinottararekhyam

vatsyagulmacakorapuraprabhrtini sthanani vyavasthitani | ujjayinyah
uttarena dasapuramalavanagaracattasivasthanesvaraprabhrtini
yavat meruh iti |

sarve grahah karanagatah bhumadhyasamadaksinottararekhyam
bhavanti | purvabhagavyavasthitah prathamataram eva ravim pasyanti,
atah desantaraphalam apaniyate | pascimabhage [vyavasthitah] cirena
pasyanti, atah tatra desantaraphalam ksipyate |
svadesaksasamarekhaksavivarabhagaih trairasikam ã yadi
cakramsakaih bhuparidhiyojanani labhyante 3298 17 25, tada
aksamsavivarabhagaih kim iti,
samadaksinottararekhantaralayojanani bhavanti kotyatmakani |

svadesasthanatah tiryagvyavasthitojjayinyadisthanam | tasya
antaralayanani lokat avagatani karnah |
karnakotivargavisesamulam bhujayojanani | tatah yadi
vyasardhatulyavalambake[na bhuparidhih tada istavalambakena ka
iti, spastabhuparidhih | punar yadi] spastabhuparidhina
grahabhuktih labhyate desantarayanaih ka bhuktih iti
desantarphalam labhyate | purvavat dhanam rnam iti || 14 ||

[bhagolasya drsyadrasyabhagau]

bhagoladrasyadrasyajñapanaya aha ã

bhuvyasardhena unam drsyam desat samat bhagolardham |
ardham bhumicchannam bhuvyasardhadhikam ca eva || 15 ||

bhuvah vyasah bhuvyasah tasya ardham bhuvyasardham, 525 | tena
unam bhagolardham drsyam upalabhyate | kasmad? samat desat |
anantaritah samah, mahadridrumadyunnatapadartharahitah desah
samah iti | ardham bhumicchannam na drsyate bhuvyasardhena adhikam
adrasyam |

etat jijñasuh bhugolaprsthavagahi sutram prasarya
purvaksitije aparaksitije [ca] badhniyat | bhuprsthasthitasya
drastuh prasaritasutranusarini drstih yati | tatra
[purva]pradese jyotimsi ardhoditani pasyati, pascad ardhastamitani
[pascati] | evam bhuvyasardhena unam [golardham]
golasutrantaralasthitam drsyam | yat etat adrsyam golardham
golasutrantaralam tat bhuvyasardhadhikam | etat समयam bhuvi | yah
punar drasta tumgasailamastake bhavati tat sailapramanadhikam
tasya adrsyam bhavati | vidyadharadayah viyati dure sthitah
prabhutam jyotiscakram pasyanti, [yasmad] upari durasthitasya
nirvirodhaprasarana drstih bhavati | atidure sthitah brahma
sarvada vivasvantam pasyati |

[bhuprsthavyavasthitanam bhuvyasardhonabhapañjarardhadarsinam
svat pramanat satatam divasah hiyate, nisa vardhate | tadartham]
trairasikam ã yadi ravikaksyayam sastih nadyah labhyante
tada bhuvyasardhayojanaih 525 kiyatyah | labdhena dvigunena sarvada
hinah divasah adhika ratrih || 15 ||

[meruvadavamukhasthanam bhagolabhramanadarsanam]

meruvadavamukhanivasinam darsanartham aha ã

devah pasyanti bhagolardham udan merusamsthitah savyam |
ardham tu apasavyagatam daksinabadavamukhe pretah || 16 ||

[udan merusthitah devah bhagolasya uttaram] ardham savyam
pradaksinagatim pasyanti | dvitiyam ardham daksinam jyotiscakrasya
apasavyam apradaksinagatim badavamukha[sthitah] pretah pasyanti |
[sthalajalasandhau sthitva etat acaryah pratipadayati | tat apeksaya
hi meruvadavamukhayoh uttaradaksinatvam | na

merubadavamukhasthanam dinniyamah asti | suryagatyapeksaya
pracyadivyaavaharah | yatra vivasvan udeti sa praci, [yatra astameti
sa pratici] | [na tatha merubadavamukhasthanam api, paritah sarvatra
raveh udayastamayambhavat |]

desantaravyavadhanat anyatha bhacakrardhadarsanam bhavati | kascit
purusah uttarena gatah desantaram eti tathatve dhruvam upari
arohitam pasyati, kramena merum praptasya upari dhruvah bhavati |
meroh uttarena daksinena dhruvah avalambate | etat
uttarayahsalakagrastikam upari nidhaya
daksinayahsalakagrastikam ca adhomukham nidhaya darsayet |
tatha lankasthanasya yah visuvat margapradesah purvaparah
pratibhasate sa merusthanam ksitijasaktah | evam
badavamukhasthanam api cakravat bhaskarah pratibhasate || 16 ||

[devasurapitrnanam dinapramanam]

merubadavamukhasthah kiyantam kalam ravim pasyanti iti aha ā

ravivarsardham devah pasyanti uditam ravim tatha pretah |
sasimasardham pitarah sasigah, kudinardham iha manujah || 17 ||

devah merunivasinah mesadisu satsu rasisu samudgatam suryam
ravivarsardham pasyanti sanmasan yavat iti arthah, pradaksinam
cakravat bhramantam ksitijasaktam kramena caturvimsatikrantibhagan
yavat parityaktaksitijam pasyanti | evam pretah api ravivarsardham
eva sakrt udgatam suryam pasyanti daksinagole satsu rasisu |

sasimasardham pitarah sasigah, sasinam gacchanti iti sasigah,
candralokanivasinah pitarah sasinah masardham pañcadasatithayah
etavantam kalam pasyanti | pitnam amavasyayam upari savita
bhavati | [tat] tesam aharmadhyam | tatah yatha yatha savita
pratipadadisu paratah avalambate tatha tatha pitnam
madhyahnottarabhagah, rasitrayantaritah astam eti, astamitah
paksena rasisadantaritah pracyam udeti | atah tesam
paksah ahah, paksah ratrih iti | kudinardham iha manujah |
kudinam bhudinam ravyudayat ravyudayam yavat, tadardham iha manujah
pasyanti | sarvam yathavat sthitam gole pradarsayet iti || 17 ||

[khagole ksitijamandalam]

khagole ksitijamandalapradarsanaya aha ā

purvaparam adhaurdhvam mandalam atha daksinottaram ca eva |
ksitijam samaparsvastham bhanam yatra udayastamayau || 18 ||

purvaparamandalam tat iha khagolapramanam | sa eva urdhvam
uparyadhovagahi sarvabhapañjaranam | tatha daksinottaram anyat
mandalam tavatpramanam, daksinottaravagahi yamya
uttaramandalam upari adhah ca janitasvastikam | ksitijam
samaparsvastham tatha anyat mandalam tavat eva | samaparsvavagahi
parikaravat dikcatustayajanitasvastikam ksitija iti ucyate | bhanam

yatra udayastamayau | yatra mandale bhanam udayastamayau laksyete |
harijam iti kaiscit ucyate | ayam khagolah sarvabhapañjaranam bahih
avatisthate || 18 ||

[unmandalam]

unmandalapradasanaya aha ã

purvaparadiglagnam ksitijat aksagrahoh ca lagnam yat |
unmandalam bhavet tat ksayavrddhi yatra divasanisoh || 19 ||

daksinottaraksitijasvastikat yamyā uttaramandale
svadesaksabhagatulye antare vedhe krtva lohasalakagre pravesya
golam nidadhya | tatah unmandalam darsayet | purvaparadiglagnam
purvaparayoh disoh lagnam | ksitijat aksagrahoh ca lagnam yat |
daksinottaraksitijasvastikayoh upari adha svadesaksabhagatulye
antare lagnam karayet | tat unmandalam | udayamandalam unmandalam
| yatra mandale divasasya ratreh ca ksayavrddhi laksyete |

visuvati unmandalaksitijayoh ekatvat divasanisoh ksayavrddhi
na stah | visuvatah uttarena unmandalam upari ksitijam adha
avatisthate | tasmāt uttaragole aprapte eva unmandalam [savita]
caradalaghatikapramanena udeti | pascāt unmandalam atikrantah
astam eti | atah divasah uttaragole vardhate | daksinagole
unmandalam atikrantah ksitijat udeti | apraptah eva astameti |
atah daksinagole ratrih upacyate | atah tattulya divasanisoh
ksayavrddhi | tadartham trairasikam ã yadi sastya grahabhuktih
labhyate, tada caradalaghatikabhih kiyati iti | labdham uttaragole ravau
udaye visodhayet | yamyē viparitam | evam uttaradisi vyavasthitanam
kramena divasanisoh mahatyau ksayavrddhi bhavatah | yatra dese
ravih mithunantastah na astam eti, sastih nadyah divasah,
tatra trimsadghatikah caram, pañcadasghatikah carardham |
tasya kashasya jya carajya | taya viparitakarmana ksitijya
aniyate ã yadi vyasardhasya iyam [vyasardhatulya] carajya tada
mithunantasvahoratrardhasya ka iti mithunantasvahoratrardhatulya
ksitijya labhyate | tasyah ksitijyayah
mithunantapakramajyayah ca vargayuteh mulam arkagra trijyatulya |
tena tatra dese yamyā uttare ksitijat upari kramena [sama]mandalam
avagahya khamadhyat daksinena dvicatvarimsadbhage [yamyā uttaram
atikramya] tatah prathamodaye punar ksitijam apnoti ca eva | tatra
sastih nadyah divasah upalaksyate | svarkagratah
[ksitijya | tadartham trairasikam] ã arkagra istatulyaya
ksitijya labhyate vyasardhena kim iti | gunakabhajakayoh tulyatvat
nastayoh ksitijyapramana aksajya bhavati | tat katham?
aksah satsastibhagah | tatra dese vyabhicarat grahagatih
| uttarena tasmāt iyam vyavastha na asti iti || 19 ||

[khagolapeksaya drastuh sthithi]

pracyadivyavasthapratipadanaya aha ã

purvaparadigrekha adhah ca urdhva daksinottarastha ca |
etasam sampatah drasta yasmin bhavet dese || 20 ||

purvapararekha, adhah ca urdhva ca ya rekha, daksinottarastha ca
| ca[karah] samuccaye | etasam rekhanam sampatah ekatra yogah,
yasmin dese drasta tatra tatra tasam sampatah |

tasmat drastrvasat digvyavastha | yatra drasta ravim udgacchan
pasyati sa praci, yatra [ravih] madhyahnam karoti sa daksina,
yatra astam eti sa para, yatra ardharatram karoti sa utara | sarvesam
uttarah meruh | lankanivasinam yada madhyahne ravih bhavati
romakanivasinam udeti | tatra lankapradese tesam praci |
tadapeksaya svasthanat uttarah meruh pratibhasate | yada romake
madhyahnah tada siddhapuranivasinam udayah [tatra romakapradese
tesam praci] | tadapeksaya tesam svasthanat uttarah meruh |
evam yamakotyam api |

bhumau yavattavatpramanam vrttam alikhya purvahne [aparahne ca]
chayam laksayet | yatra pradese sankucchaya vrttam pravisati sa
pascima | yatra niriyati sa praci | tadagrayoh matsyam utpadya
tanmukhapucchaprksutram prasarayet | sa daksinottara dig bhavati |
athava tricchayagramatsyadvayamukhapucchaprksutradvayasampatah
uttara daksina ca | [athava dik] prasadhaniya citrasvatyoh || 20
||

[drnmandalam drkksepamandalam ca]

[drnmandaladrkksepamandalasvarupam aha ã]

urdhvam adhastat drastuh jñeyam drnmandalam grahabhimukham |
drkksepamandalam api praglagnam syat trirasyunam || 21 ||

drnmandalam [drastuh urdhvam adhastat] grahabhimukham
[bhavati] | yatra drasta bhavati tatra asya madhyam, yatra grahah tatra
asya paridhih, yavan drggrahayoh antaram tavata viskambhardhena
drnmandalam pradrasyam | tat eva madhyahnasthite grahe
drkksepamandalam bhavati | drkksepamandalam api |
samamandalamadhyat daksinena uttarena va yatra grahabhimukham
drsteh ksepah tatra yah mahapramanakaksyah grahah sa
stokataram ksipyate, alpapramanakaksyah bahutaram ksipyate iti |
etat madhyahne drggyapramanavyasardhena samamandalamadhyat
badhniyat | asya anayanopayah ã praglagnam syat trirasyunam |
parvakalaghatikah purvahne dinardhat sodhayet | sesapranan
trairasikanitaravibhuktalankodayapranaih unikuryat |
sesebhyah yavat lankodayapranah sudhyanti tavat sodhyah |
tanvantah eva rasayah visodhyante | sesapranan trimsata
gunayet, asuddhalankodayena vibhajat, labdham bhagadi
purvavisodhitaih eva sodhayet | purvahne madhyalagnam bhavati |
aparahne adhikatvat raveh yavantah lankodayah visudhyanti
tavantah praksipyat lagnam kriyate | acaryena sthulaprakrtya

istaghatikabhih purvalagnam lagnavidhina krtva trirasyunam
kriyate, madhyalagnam bhavati iti | rasayah lankodayaih madhyam
avagahante iti lankodayaih yat madhyalagnam tat suksmam iti | tasya
apakramakastham svadesaksabhagayutam samadisoh bhinnadisoh
visuddham khamadhyaravikaksyantaram bhavati | tasya jiva madhyajya
iti ucyate | candrasya apakramakastham viksepayutam viyutam kriyate |
yatah vimandale candrah tatah aksabhagayutaviyutasya jya
candramadhyajya bhavati | anaya atra madhyajya vyakhyata || 21 ||

[svayamvahagolayantram]

svayamvahagolayantrapratipadanaya aha ã

kasthamayam samavrttam samantatah samagurum laghum golam |
paratatailajalaih tam bhramayet svadhiya ca kalasamam || 22 ||

kasthah nirmitam kasthamayam sriparnyadibhih purvavat |
samavrttam | sarvesu pradese [samam], na hinadhikam iti | samagurum
| samantatah sama guruta karya | yadi atimatraguruh bhavati
pasanavat niscalah syat, [mahata kalena bhramati iti atah]
samavrttam samagurum | laghum atra api samasabdah prayoktavyah | etat
gunavisistam golam katham bhramayet? paratatailajalaih iti |
svadhiya ca svakiyaprajñaya ca tam bhramayet | kalasamam kalena samam
kalasamam | kalasamam ahoratrasamam yatha bhramati tatha bhramayet | tat
yatha ã sastighatikankitasvahoratramandale
kanyatulasandhipradese kilakam isat unnam ekam karayet |
siddhapurvaparadaksinottarasthan jalapatram ekam sthapayet | patram
ca samam vattam dirgham [tala]madhyanihitasuksmacchidram
ghatikasastya jalapurnam yatha riktam bhavati tatha svadhiya
prasadhya tatah karma kriyate | yavat patrat udakam sravati tavat
gurutvat alabuh jalavasat adhogacchan golam akarsati | evam sakrt
yuktah golah paramarthabhagolavat ahoratre bhramati | prathamam
tamrakilake pasakasutrasya ekam agram badhva golayantram adhastat
prabhrti parivestya tatra eva pradese sutram prapayet iti kramah ||
22 ||

[aksaksetram]

visuvat jyapradesapratipadanaya aha ã

drggolardhakapale jyardhena vikalpayet bhagolardham |
visujjivaksabhujya tasyah tu avalambakah kotih || 23 ||

drggolardham ghatakopalavat avasthitatvat drggolardhakapalam |
bhagolardham eva kevalam drsyate | yena vyavaharah drsyah |
bhagolardham jatau ekavacanam | jyardhena vikalpayet | bhumau vrttam
alikhya purvaparadaksinottaradikihnitam krtva ekaikasmin
caturthabhage rasitrayam ankayet | punar ekaikah rasih astadha
vibhajet | tatra sutrani prasarayitavyani | tani jyasutrani |
tadardhani jyardhani | athava anyah vikalpakramah |
visuvajjivaksabhujya | samamandalasya visuvatah uttarena

aksatulyantare avasthitatvat aksah iti ucyate | tasya
aksakasthasya bhujā, aksajya visuvajjya iti paryayah |
vyasardham karnah | bhujakarnaktivisesamulam avalambakah |
sa kotih iti | etat gole pradarsayet | samamandalamadhyat
daksinena aksajyatulye antare sutrasya ekam agram badhva graham
prapayet | sah avalambakah | bhujakotivargayogasya mulam karnah
vyasardham iti | evam anyatra api drggolardhe kalpitajyardhesu
bhujakotikarnavyavastha kalpaniya || 23 ||

[svahoratrardhaviskambhah]

apakramadibhih bhujadikalpanam aha ã

istapakramavargam vyasardhakteh visodhya yat mulam |
visuvadudagdaksinatah tat ahoratrardhaviskambhah || 24 ||

suryasya istapakramajyayah candrasya istapakramajyayah ca
yah vargah sa istapakramavargah | tam vyasardhakteh visodhya
[sesasya] yat mulam tat visuvatah uttarena daksinena va
ahoratrasya viskambhah bhavati | krantijya bhujā | vyasardham
karnah | tayoh yat vargavisesamulam tat
svahoratrardhaviskambhah | purvavidhina tat uttaragole uttarena,
daksinagole daksinena pradarsayet || 24 ||

[mesadinam lankodayah]

lankodayaprananayanam aha ã

istajyagunitam ahoratravyasardham eva kasthantyam |
svahoratrardhahrtam phalam ajat lankodayapragjyah || 25 ||

istajya iti mesavrsamithunantajyah grhyante | etabhih
gunitam ahoratravyasardham svahoratrardhaviskambhah iti arthah |
kasthasya antah kasthantah, tatra bhavam kasthantyam |
navatih bhagah yasmin [kasthe tasya ante bhavam] yat
svahoratrardham tat eva [ista]jyabhih gunitam
svahoratrardhahrtam svakiyasvakiyahoratrardhahrtam phalam
istalankodayapragjyah | ajat mesat prabhrti kastham
bhavati iti kasthikriyate | [mithunanta]pragjyakasthat
vrsantapragjyakastham visodhayet | sesam mithunasya
lankodayapranah | [evam] vrsantapragjyakasthat
[mesantapragjyakastham visodhayet | sesam vrsabhasya
lankodayapranah] | svarupatah eva mesa[lanko]dayapranah
bhavanti || 25 ||

[ksitijya]

dinanisoh ksayavrdhipratipadanaya aha ã

istapakramagunitam aksajyam lambakena hrtva ya |
svahoratre ksitija ksayavrdhijya dinanisoh sa || 26 ||

istapakramena gunitam istapakramagunitam |

[istapakramagunitam] aksajyam lambakena hrtva phalam
svahoratrmandale ksitiya bhavati | tatra istapakramajya
kotih, ksitiya bhujā, tadvargayutimulam karnah arkagra bhavati
iti | purvaparastatikayoh arkagra yoh sutram badhva
bhujakotivasana pradarsya | ksitiyonmandalayoh antaram ksitiya
iti | taya dinanisoh ksayavrdhi | purvakstitijāt
uparyadhovyavasthitonmandala[ksitijayoh madhye jya]vat sa
pradarsyate || 26 ||

[svadesodayah]

rasyudayakalapatipadanaya aha ā

udayati hi cakrapadah caradalahinena divasapadena |
prathamah antyah ca atha anyau tatsahitena kramotkramasah || 27 ||

udayati darsanam yati, ardhm upari cakrapadah, trayah rasayah |
caradalahinena divasapadena iti anena lankodayah trayah parigrhyante
| yatah tribhih mesadilankodayaih pañcadasaghatikah tah
svahoratraturthah amsah, tatah kramena
vyavasthitalankodayapranebhyah mesadicaradalapranan
svadesaksotpannan svakiyan visodhayet | mesadinam svadesodayah
bhavanti | antyah cakrapadah minakumbhamakarah | ete api
caradalahinena cakrapadena udayanti | caradalahitena divasapadena | atra
api divasapadagrahanena karkatasimhakanyayah utkramena
lankodayah grhyante | tena karkatasimhakanyayah carapranaih
utkramena sahitah udayanti | kramotkramasah iti | kramotkramagatya
kramena caradalahinah mesavrsamithunah, utkramena sahitah
karkatasimhakanyah | ete eva utkramena tulavrsikadhanumsi |
tatah makarakumbhaminah utkramena caradalahinah |
mesavrsamithunah kramena apamandale tiryagvyavasthitah, tena
mesah sigrham udeti atah caradalaubhih apacyate | evam
vrsah mithunah ca | etaih makaradayah vyakhyatah |
karkatasimhakanyah [tadbhinna]samsthanatvat cirena udgacchanti |
atah caradalapranaih upacyante | etaih tuladayah vyakhyatah
|

ksitiya vyasardhaguna svahoratrardhaharta carajya,
tatkastham caradalapranah | prthak mesadinam lankodayavat
utpadyah | svadesarasyudayaih istakalalagnartham suryodayat
prabhrti ghatikah pranikrtya suryabhogyarasyudayapranah
tebhyah visodhayet | surye bhogyamsam ksepyam | punar yavantah
rasyudayah suddhyanti tavantah visodhya surye rasayah
ksipyante | sesam trimsata gunitam asuddhodayabhaktam bhagadi
vardhitaravau ksipet | lagnam bhavati | evam ratrau api
ratrigataghatikah dinamanaghatikasū praksiya lagnam anena vidhina
kartavyam | ratrisaghatikabhih viparitakarmana raveh
gatabhagadina tadutkramena yavantah udayapranah visuddheyuh
tavantah sodhaniyah] sesam trimsata gunitam

vartamanodayabhaktam bhagadi sodhitam udayalagnam |

atha raveh lagnasya ca antarakalasadhanam | raveh abhuktabhagaih
abhyudayam samgunya trimsata bhajet | labdham raveh
abhuktapranah | evam lagnabhuktabhagaih tadudayam samgunya
trimsata vibhajet | labdham lagnabhuktapranah |
antarapranayuktah sadbhih bhaktah vighatikah, sastya
ghatikah, suryodayat arabhya bhavanti || 27 ||

[istakalasanukuh]

[istakalasanukvanayanartham aha ã]

svahoratrestajya ksitijata avalambakahatam krtva |
viskambhardhavibhakte dinasya gatasasayoh sankuh || 28 ||

[svahoratrestajyanayanam dinagatasasaghatikabhyah | uttaragole
ksitijata[m unmandala]t adhah vyavasthitam atah caradalaghatikah
[dinagatasasaghatikabhyah] visodhya nispannah
unmandalavadheh bhavanti | tah pranikrtya jiva grahya |
caradalajyaya saumyetaragolayoh yutaviyuta ksitijavadheh bhavati |
[atah trairasikam] ã yadi vyasardhamandale iyam jya bhavati
svahoratrestajya kiyati iti ksitijamandalavadheh
svahoratrestajya abhidhiyate | tam istajyam avalambakahrtam
krtva viskambhardhena vyasardhena vibhajet | divasasya purvahne
gatasya, aparahne sesasya sankuh bhavati |

candrasankvanayanam | ratrau candracchaya upalaksayet | tatra
purvakapale candramasah istakalaghatikah, aparakapale tu
candrastalagnantaralaghatikah candramasah sesaghatikah
aniya istakarma | candrasvahoratrestajyam ksitijyam caradalajyam ca
aniya caradalaviparyayanispannapranaih suryavat karma kartavyam |
atha svahoratrestajya dvadasaguna visuvatkarne bhakta
istasankuh bhavati | athava caradalena adhikonaghatikajyam
caradalajyaviparyayanispannam, lambakagunitam svahoratrena
samgunya trijyavargena [vibhajya] sankulabdhih | athava tam
dvadasagunasvahoratrena samgunya
visuvatkarne vyasardhena bhajet | phalam sankuh |

divasaghatikanayane ca sankuna gunitam vyasardham
sankucchayavargayutimulena bhaktam brhacchankuh bhavati |
trijyagunitam lambakabhaktah svahoratrestajya labhyate | tena
uttaragole ksitijya sodhyate, daksine ksipyate | tatah
vyasardhena hatva svahoratrestajya bhajet | labdhasya kastham
uttaragole caradalayutam daksine hinam dinagatasasapranah [
bhavanti | taih] pragvat ghatikah || 28 ||

[sankvagram]

sankvagravadarsanaya aha ã

visuvajjivagunitam svestam sankuh svalambakena hrtah |

astamayodayasutrat daksinatah suryasankvagram || 29 ||

svestasankuh istakalotpannasankuh, visuvajjyaya
aksajivaya gunitah lambakena bhaktah astodayasutrat
daksinatah suryasankvagram bhavati | sankoh agram antaram
sankumulat samottaravagahisutram yavat astamayodaya[sutra]m iti |

ksitijamandale praksvastikat daksinam uttaram va
arkagrakasthatulyantare sutrasya ekam agram badhva, dvitiam agram
tavat [arkagrakasthatulyantare] eva aparabhage badhniyat | tat
purvaparayatah udayastasutram | tasya sutrasya sankutalasya antare
sankvagram | sankumulat bhumadhyam yavat sutram drgjya |
bhumadhyat upari sankumastakaprapi yat sutram karnah vyasardham
iti || 29 ||

[arkagra]

arkagranayanaya aha ã

paramapakramajivam istajyardhahatam tatah vibhajat |
jya lambakena labdharkagra purvapare ksitiye || 30 ||

paramapakramajya caturvimsatibhagajya 1397 | tam istasya raveh
bhujajyaya gunitam [krtva] lambakena vibhajat , [labdha jya] arkagra
bhavati | iyati adhvani visuvatah uttarena daksinena va ravih
udeti, purvapare ca ksitijamandalapradese || 30 ||

[samasankuh]

samamandalasankvanayanaya aha ã

sa visuvajjyona cet visuvadudag lambakena sangunita |
visuvajjyaya vibhakta labdhah purvapare sankuh || 31 ||

sa iti anena apakramajya grhyate | uttaragole visuvajjyatulya
krantijya [yada] bhavati, tada madhyahne eva savita samamandalam
visati | visuvajjya [yada] krantikasthajyaya una [tada]
samamandalat uttarena yati | [krantikasthajya yada]
visuvajjyaya una tada samamandalam visati | [krantikasthajya]
yada una visuvajjyaya, tada [purvanita arkagra] lambakena
gunita visuvajjyaya bhakta samamandalasankuh bhavati |
purvasamamandalena aparasamamandalena [ca] ksitiye arkagrantare
astamayodayasutram badhva arkakrantarasibhagapradesah
samapurvaparamandale yatra lagnam pragbindutah tat
samamandalacapam tatha gole bhramayet yatha ksitijadhobhage
samamandale tavati antare lagnam bhavet | tayoh samamandalabindvoh
antare sutram badhva tadardham sankuh purvavat eva
purvaparekhasprk bhavati | sankoh uttarena astamayodayasutram
yavat antaram sankvagram arkagraturyam | samamandalasankuh
aksajyaya gunitah paramakrantijyabhaktah suryabhujajya bhavati |
[surye mesadige] tatkastham adityah, karkatakadige
sadrasisuddham, tuladige sadrasiyutam, makaradige

cakravisuddham ravih bhavati |

chedyake api ã samayam bhumau vrttam alikhya dikcihnitam krtva
suryabimbodaye aste ca purvaparayoh bindu krtva
purvaparekhyah daksine [madhyahnanatajyatulye antare] trtiyam
bindum prakalpya bindutravagahi matsyadvayena vrttam alikhet | tat
arkabhramavrttam | arkagragre savita uditah tadvrttanusarena
samamandalam avagahya daksinena natajyatulye antare madhyahnam
krtva kramena aparabhage samamandalat niskrantah aparagragre
astam eti | arkabhramavrttasya pragapararekhyah yatra sampatah tatra
samamandale pravesah | samamandale tu madhyam yavat antaram
samamandalasankucchaya bhavati | daksinagole samamandalat
daksinena yati | [tada] samamandalasya pravesabhavah || 31 ||

[madyahnasankuh]

madyahnasankucchayayoh anayanaya aha ã

ksitijat unnatabhaganam ya jya sa parah bhavet sankuh |
madhyat natabhagajya chaya sankoh tu tasya eva || 32 ||

ksitijat iti samadaksinottarasvastikapradesat ye unnatabhagah
golamadhyasthite ravau laksitah tesam ya jya sa paramah
sankuh bhavati | ya madhyat natabhagajya sa paramasankoh chaya
syat | istamadhyahne raveh apakramabhagah aksabhagesu
daksinagole prayojayet | uttare gole viyojayet | te natabhagah bhavanti
| candrasya viksepavutaviyutah natabhagah bhavanti, yatah
vimandale candrah | ete navateh visodhyante | sesam
unnatabhagah | tesam [jya] unnatabhagajya | athava
taddinasvhoratrardham ksitijyaya svaya udagyamy
viyutayutam[vyasardhaganam svahoratrardhabhaktam] dvadasaganam
visuvatkarahrnam mahasankuh tadunnatajya bhavati || 32 ||

[drkksepajya]

drkksepapratipadanaya aha ã

madhyajyodayajivasamvarge vyasalahrte yat syat |
tat madhyajyakrtyoh visesamulam svadrkksepah || 33 ||

madhyajya ca udayajiva ca madhyodayajive | tayoh samvargah
parasparaganam vyasalahrtam yat bhavati tasya madhyajyayah ca
krtyoh visesamulam svakiyah drkksepah | svagrahanena tu
ravicandrakaksyayoh bhinnah drkksepah || 33 ||

[drggatijya]

drggatijyanayanaya aha ã

drgdrkksepaktivisesitasya mulam svardggatih kuvasat |
ksitije sva drkchaya bhuvyasardham nabhomadhyat || 34 ||

drgjyadrkksepakrtyoh vivarasya mulam svakiya drggatih bhavati

| kuvasat bhuvasat iyam bhavati | madhyajyodayajivayoh samvarge
vyasadalahrte yat tat madhyajyakrtyoh visesat mulam
drkksepah hi bhavati | evam bhuvasat
utpannatrijyasankuvargavisesat mulam drgjya bhavati | atah
bhuvasat utpanna[drgjya]drkksepanispannatvat kuvasat iti ucyate
| "ksitije sva drkchaya" iti atra tu "sva" iti anena
svakiyadrkksepadrkgati abhidhiyete | bhuvyasaridham 525 |
ksitijamandale sva drkchaya kasmata utpanna? nabhomadhyat |
vyasaridha[tulya]m etat bhavati | tat yatah kudrstivasat
samamandalamadhyat purvaparayoh disoh drggatih [lambanam]
rnam dhanam va iti, tatha eva bhagolamadhyat daksinottaradisoh
drkksepasya grahanena natih va syat |

nyanam visesotpattim darsayati | [bhumeah golakaratavat]
bhuvyasaridha[tulya]m antaram ksitije suryakaksyayam
candrakaksyayam ca [bhavati] | suryakaksyotpannamadhyajyam
suryakaksyodayajyaya samgunya trijyaya bhagalabdhasya vargam
madhyajyavargat visodhya mulam ravikaksyayam drkksepah, tatha
candrakaksyotpannamadhyajyam svodayajyaya samgunya trijyaya
bhagalabdhasya vargam svamadhyajyavargat visodhya mulam
candrakaksyayam drkksepah | suryasvahoratradiibhih
sadhita drgjyavargat suryadrkksepavargam visodhya mulam
suryakaksyayam drggatijya | candrasvahoratradiibhih
sadhita drgjyavargat candradrkksepavargam visodhya mulam
candrakaksyayam drggatijya bhavati | evam anyesam api grahanam
samamandalamadhyat drggateh bhavah | udaye [surya]grahane
candrasya tavadadhahsthitatvat candrakaksyayam
suryabimbakendrasutrat purvena candrabimbam natam laksyate | astamaye
tu tatha eva aparatah | samabhupradese sthitasya drastuh
vyasaridhatulyaya drggatijyaya bhuvyasaridhatulyam drggatyantaram [=
lambanam] | evam eva daksinottarakapalayoh drkksepantaram [=
natih] | [tatra idam traikasikam] ã yadi vyasaridhatulyaya
drggatijyaya bhuvyasaridhayojanatulyam drggatyantaram [=lambanam] tada
istakalotpannadrggatijyaya kiyat iti | [punar ca traikasikam ã yadi]
sphutayojanakarnena trijyatulyah kalah labhyante, tada drggati[=
lambana]yojanaih kiyatyah iti | atra prathame traikasike trijya
bhagaharah dvitiye gunakarah tulyatvat [nase krte]
ravicandrayoh drggateh bhuvyasaridham gunakarah
sphutayojanakarnah bhagaharah, phalam liptah | suryaliptah
candraliptabhyah visodhya traikasikam ã yadi
[dinasphuta]bhuktyantarena sastih nadyah [labhyante, tada]
abhih liptabhih kiyatyah iti | labdham nadyah bhavanti, tah
drggati[=lambana]ghatikah | purvakapale purvatah grahah
kaksyayam natah | tasmata pragyogah atah grahe apaniyante |
aparapakale paratah natatvat lambanaghatikatulyakalena yogah
bhavisyati iti atah praksipyante | evam etat karma tavata kriyate yavat
avisesah |

evam [ravicandrayoh] drkksepaliptah pragvat trairasikena
jñatah | yadi ravicandrayoh madhya[jye] samadiksthe bhavatah tada
[ravicandrayoh] natiliptanam visesah anyatha yogah | tatah
avanatih bhavati | tatah madhyagrahanacandrat patam visodhya
sesasya daksinottarabhujajya ardhapañcamena gunita trijyabhakta
viksepah | avanativiksepayoh samadisi yogah, bhinnadisi viyogah
[sphutaviksepah] | sphutaviksepah avanatih iti paryayah |
taya ca avanatya sthityardham aniya madhyatitheh visodhya sesah
sparsakalah | tena pragvat lambanavidhih |
sparsamadhyalambanaghatikantarena sthityardham upaciyate | tat punar
madhyakalat visodhya asakrt sthityardham utpadayet yavat sthiram bhavati
| mokse punar prathamasthityardham madhyatithau praksipet | purvavat
moksalambanamadhyalambanaghatikantarena sthityardham upaciyate | tat
punar madhyatithau praksipya purvavat lambanaghatikah utpadya
tanmadhyalambanantarena sthityardham upacitam krtva tat eva karma punar
kriyate yavat sthiram bhavati | evam sthirikrtasthityardhasambandhinam
suryendugatikalahogam madhyagrahanasuryendoh sparse visodhayet
mokse ksipet | sparsamoksakalikau bhavatah |

atha pragaparakapaladvaye api lambanayoh tayoh yogena yutam sthityardham
sphutam bhavati |

samayamavanau [vyasardhapramanena sutrena] vrttam alikhya
dikcihnitam krtva mandalapurvabhage pragapararekhyah uttarena
daksinena va udayajyakasthatulye antare bindu krtva
bindudvayasirasprksutram prasarya rekha kuryat udayajya bhavati |
[punar] madhyam mandalakendram krtva madhyajyatulyasutrena vrttam
bhramayet | tat madhyajyamandalam | trijyamandalaparidhibindudvayat
sutradvayam madhyakendram aniya rekhadvayam kuryat | tat antarajyardham
madhyajyamandale tatha eva purvaparatah uttarena daksinena va
vyavasthapyate | tat madhyajyavargavisesamulam drkksepajakotih
madhyajyamandale bhavati |

[trijyamandale purvaparayoh udayajyakasthatulye antare] bindu
krtva [vrttakendrat madhyahna]natajyatulye antare drkksepabinduh
daksinena [prakalpya] bindutrayera matsyam utpadya
tanmukhapucchasprksutrasampatat bindutrayerasprgvrttam bhramayet | tat
arkabhramavrttam | tatra ksitijat urdhvam yatra pradese ravih
tanmadhyakendrantaralasantam drgjya karnah, sthaniya
drkksepajya kotih, tadagrat arabhya drgjyagram yavat
ravicihnopalaksitam tadantaralam drggatijya sa purvapara | evam
visistam tryasram ksetram nispadyate || 34 ||

[aksadrkkarma]

udayastamayayoh viksepavasat rñadhanatvapratipadanaya aha ã

viksepaguna aksajya lambakabhakta bhavet rñam udaksthe |
udaye dhanam astamaye daksinage dhanam rñam candre || 35 ||

aksajya viksepaguna lambakabhakta phalam liptah | uttaraviksepe
udayasthitacandre rnam, astamaye dhanam | yamyeksepe udayasthe candre
dhanam, astamaye rnam iti | rnadhanayukti
ravicaradalaphalopapattitulya || 35 ||

[ayanadrkkarma]

ayanavasat rnadhanatvpratipadanaya aha ã

viksepapakramagunam utkramanam vistarardhakrtibhaktam |
udagnadhanam udagayane daksinage dhanam rnam yamyeksepe || 36 ||

viksepah ca apakramah ca viksepapakramau | [viksepapakramau gunau
yasya tat viksepapakramagunam | viksepah tatkalikah grhyate,
apakramah ca paramapakramah | utkramanam utkramajyam] viksepena
paramapakramena gunitam rasitrayayutacandrasya utkramajivam iti
arthah | katham rasitrayayutacandrasya tat utkramanam?
utkramanagrahanat rasitrayaksepah avagamyate |
[rasitrayayutacandrasya] utkramajyam gunayet | vvasardhakrtya bhajet
| phalam liptah udagviksipte uttarayane rnam daksine dhanam |
tat eva phalam daksine ayane uttaraviksipte dhanam, rnam yamyeksepe,
viksepe daksine rnam bhavet iti | rne dhane yuktih api |
yasmad tulyadigviksepayanayoh grahah tavat adhikah prapyate,
udayastamayaksitijayoh visodhyate; bhinnayanaviksepayoh tavat
hinah iti ksipyate | sarvagrahanam svodayastamayayoh idam karma
pravartate | na madhyahnardharatrayoh || 36 ||

[candradisvarupam grahanakaranam ca]

candradisvarupavyavarnanaya aha ã

candrah jalam arkah agnih mrdbhuccaya api ya tamah tat hi |
chadayati sasi suryam, sasinam mahati ca bhucchaya || 37 ||

yat etat candramandalam tat pratyaksena jalam, vivasvan
usnasvabhavat agnih, bhuh prthivi mrnmayi, bhucchaya
tamah svabhavat iti | sasi candrah suryam chadayati | uparisthitah
suryah adhahsthitena candramasa chadyate | mahati ca bhucchaya
sasinam chadayati | grahakabhedah ca anayoh asti, yatah kucchaya
visala nyunah sasi, sasi nyunah visalah dinakrt || 37 ||

[grahanamadhyakalah]

kada grahane bhavatah, tatpratipadanaya aha ã

sphutasasimasante arkam patasannah yada pravisati induh |
bhucchayam paksante tada adhikonam grahanamadhyam || 38 ||

sphutah sasimasah sphutasasimasah, tasya ante parisamaptau
amavasyayam arkam adityam, patasannah viksepamargagatya
patasannah, yada pravisati induh yada arkagrahanam bhavati |
[paksante purnamasyante patasannah induh yada] bhucchayam
pravisati | tada adhikam unam va grahanamadhyam bhavati | yatah

purvakapale grahanamadhyam adhikam bhavati sphutatithicchedajanitam tena
tatra lambanaghatikah visodhyah tavata kalena atitvat
grahanamadhyasya | aparakapale grahanamadhyam unam bhavati
sphutatithicchedajanitam tena tatra lambanaghatikah ksipyante,
bhavitvat grahanamadhyasya || 38 ||

[bhucchayadairghyam]

bhucchayapramanam aha ã

bhuravivaram vibhajat bhugunitam tu ravibhuvisesena |
bhucchayadirghatvam labdham bhugolaviskambhat || 39 ||

bhuvah raveh ca antaram bhuravivaram, raviyojanakarnah 459585,
bhugunitam bhuvyasena 1050 gunitam, ravibhuvoh visesena
ravibhuvoh vvasayoh 4410, 1050, antarena 3360 vibhajat | tat
bhugolacchayadirghatvam bhavati 143620 bhugolaviskambhat prabhrti |

atra idam pradipacchayakarma | ravivvasah pradipah bhujā,
bhuvvasah sankuh, ravibhuvvasayoh antaram
ravibhuvvasavisesah, raviyojanakarnah sankupradipacchayayoh
antaram iti pradipacchayakarmasutranibandhanam |

upapattih pradipacchayakarmana eva | ravibhugolavrttaparsvayoh
sutradvayam tatha suryabhuvvasasutradvayam ekatra badhniyat |
bhucchaya kramena apaciyamana bhuviskambhat laksyate || 39 ||

[tamasah viskambham]

candrakaksyayam bhucchayanayanaya aha ã

chayagracandravivaram bhuviskambhena tat samabhyastam |
bhucchayaya vibhaktam vidyat tamasah svaviskambham || 40 ||
bhucchayagrat arabhya candram yavat antaram chayagracandravivaram |
bhucchayadairghyam 143620 candrakarnena 34377 anena hinam 109243
chayagracandravivaram jatam, bhuviskambhena 1050 gunitam
bhucchayadairghyena 143620 vibhaktam labdham tamasah viskambhah 689
svagrahane candrakaksyayam bhucchayaviskambhah bhavati |
yadi candrayojanakarnena vvasardham 3439 labhyate tada
tamoviskambhardhena kiyat iti labdham
[tamoviskambhardha]liptapramanam 800 | 19 || evam
svakiyasphutayojanakarnabhyam ravicandrayoh vvasaliptanayanam |
ravivvasah 4410 vvasardha 3438 gunitah raviyojanakarna 457585
bhaktah ravibimbakalah 33 | 00 || candravvasah 315 vvasardha 3438
gunitah candrayojanakarna 34377 hrtah candrabimbakalah 31 | 10 ||
40 ||

[sthityardhanayanam]

sthityardhapratipadanaya aha ã

tacchasisamparkardhakteh sasiviksepavargitam sodhyam |
sthityardham asya mulam jñeyam candrakadinabhogat || 41 ||

chadyachadakayoh samparkardham manaikyardham iti arthah | tasya
krtih tacchasisamparkardhakrtih | tasyah sasinah
viksepavargitam sodhyam | grahanadvaye api candrat viksepah iti |
ravigrahane avanatiyutaviyutah sphutaviksepah grhyate | tasya
mulam sthityardham bhavati | katham? candrarkadinabhogat |
candrarkadinabhogasabdena candrarkadinabhuktih grhyate | tayoh
anulomagatikayoh dinagatyantarena trairasikam karma ã yadi
ravisasigativisesena sastih nadyah labhyante, [tada]
sthityardhaliptabhiih kiyatyah iti sthityardhaghatikah labhyante || 41
||

[vimardardhanayanam]

evam vimardardham aneyam | katham?

candravyasardhonasya vargitam yat tamomayardhasya |
viksepakrtivihinam tasmad mulam vimardardham || 42 ||

iti etasmat | [sthityardham] titheh sparse sodhyam mokse deyam,
ravicandrapatah api sparsamoksakalikhah sthityardhaghatikabhiih
krtva punar sparsamoksayoh viksepau, tabhyam sthityardhe ubhe
yavat avisesam |

ganitakarmana upapattih drsyate | grahyabimbamanardhena vrttam
alikheth | tat grahyabimbam | tatah manaikyardhatulyena karkatakena tena
eva kendrena aparam vrttam alikheth | tat
grahyagrahakasamparkardhamandalam | tatah daksinottararekhayam
yathadisam kendrat uttarena daksinena va viksepatulyam sutram
prasarya bindum kuryat | tanmatsyavidhina purva[param rekham kuryat |
tatsamparkardhamandalasampatat kendraprapinim rekham nayeth | evam
ardhayatacaturasram ksetram utpadyate | tatra samparkardham karnah,
viksepah ca bhujah | tadvargavisesamulam kotih sthityardham iti |
yada grahyabimbardhonagrahakabimbardhatulyam grahyagrahakayoh
kendrantaralam, tada grahyagrahakabimbardhavislesah karnah,
viksepah eva bhujah | tadvargavisesamulam kotih vimardardham iti
|| 42 ||

[candrasya agrastamanam]

grastasesapramananayanaya aha ã

tamasah viskambhardham sasiviskambhardhavarjitam apohya |
viksepat yat sesam na grhyate tat sasankasya || 43 ||

sasiviskambhardhavarjitam tamasah viskambhardham candraviksepat
apohya | yat sesam tat candrasya na chadyate | grahanamadhye uttarena
daksinena va yavat eva viksepah, tada tavat eva tayoh
kendrantaralam bhavati | yada punar viksepah, tasmad sasitamasah
viskambhardhavislesat adhikah bhavati, tada tavatpramanam eva
bimbakendrantaralasya dvitiya parsvatah candrabimbam tamomadhyat
niskrantam laksyate | yavan bhagah candrasya na grhyate tam

candrabimbat visodhya sesam grasapramanam syat | candravat arke api
|| 43 ||

[istakalikagrasah]

istakalagrasapratipadanaya aha ã

viksepavargasahitat sthitimadhyat istavarjitat mulam |
samparkardhat sodhyam sesah tatkalikah grasah || 44 ||

viksepavargah tena sahitat, sthitih sparsat arabhya yavanmoksah,
tasya madhyam sthityardham, istakalavarjitam istavarjitam, tasmāt |
yat mulam [tat] samparkardhat sodhyam manaikyardhat visodhyam |
sesah tatkalikah grasah bhavati |

sthityardham istakalahinam bhuktyantaragunam sastihrtam
liptah | vargah tavatah viksepasya liptatmakasya varge yuktva
mulikriyate, mulam karnah | [tavatkarnam manaikyardhat visodhya
sesah tatkalikah grasah bhavati] tavata karnena
pravistah grahakah || 44 ||

[aksavalanam ayanavalanam ca]

valanajyapratipadanaya aha ã

madhyahnotkramagunitah aksah daksinatah ardhavistarahrtah
dik |
sthityardhat ca arkendvoh trirasisahitayanat sparse || 45 ||

madhyahnat prabhrti utkramah madhyahnotkramah |
madhyahnatithyantarataghatika madhyahnasabdena ucyate | tatra
prakkapale tithighatika dinardhat visodhya, aparakapale tebhyah
dinardham | madhyahne iti upalaksanam | tatha ca indugrahane
madhyaratritihyantarataghatikah grhyante | tah sadgunah
bhagah tesam utkramajya, taya aksajya daksinatah vyavasthita
gunaniya, ardhavistarena vyasardhena bhakta dik bhavati |
daksinatah iti aparakapalam adhikrtya utktam acaryena, yatah
aparakapale purvabhagah daksinena valati, aparabhagah uttarena;
prakkapale punar purvabhagah uttarena, aparabhagah daksinena
valati | evam bimbasya purvaprabhagah uttarena daksinena valati,
yatah diksabdena valanam ucyate | yatra candrah bhucchayayam
pravisati tatra candrabimbe khandyamane tadvalanam prakkapale
candrabimbapurvabhage uttarena avatisthate, aparabhage daksinena |
aparakapale viparitam |

viksepah ravigrahane yathadisam eva bhavati | yada punar bhucchaya
grahakatvena kalpita tada viksepasya digviparyayah |

sthiteh ardham sthityardham, viksepah | yatah sthiteh ardham
viksepavasat bhavati, tena sthityardhasabdena viksepah ucyate |
tasmāt viksepavasat dvitiyavalananayanam ã arkendvoh iti | arkah ca
induh ca arkendu, tayoh arkendvoh trirasisahitayoh yat ayanam |

ayanasabdena krantih, trirasisabdena jya utkramena grahya |
trirasisahitau yada ravicandrau cakrardhat unau bhavatah tada
[purvakapale] uttaram digvalanam | cankrardhat adhikau tada
[purvakapale] daksinam digvalanam | utkramajya parakrantiguna
trijyahrta krantivalanajya | tadbimbapurvabhage uttarena uttaram,
daksinena daksinam | aparakapale tu [vyatyayena] diksadhanam
kartavyam |

samamandalamadhyat daksinena aksatulye antare
purvaparayatamandalasya [nadimandalasya] yat antaram tat
aksavalanam | tat madhyat utkramena upaciyate | etat anayanam ã
samamandalamadhyat natasya utkramajyaya kartavyam | purvakapale
karnagatyā bimbapurvabhagah uttarena pratibhasate, aparabhagah
daksinena | parakapale bimbapurvabhagah daksinena aparabhagah
uttarena | iti gole pradarsayet | ayanavalanam tu uttaradaksinayanadau
bhinnatvena pratibhasate, mesadau uttaram, tuladau daksinam | evam
aksavalanatrāyena parilekhah kriyate |

prathamam samabhumau grahyamandalam likhet | tat kendrat eva
samparkardhamandalam [vyasardhamandalam ca likhet] | vyasardham
istacchedena chinnaṁ kartavyam | [vyasardhamandalam]
purvaparakadaksinottaradigankitam [karyam] | aksayanavalane
kastikrtya tulyadigyogah bhinnadigvislesah [ca karyaḥ] |
vyasardhamandale daksinena uttarena va apamandalagatyā
[pascimabhage] valanam vidhaya bindum kuryat | tatah kendraprāpi sutram
nayet | tasya sutrasya manaikyardhaparidheh yatra sampatah tasmāt
uttarena daksinena viksepam ca apagatyā paridhyanusarena nitva
agre bindum kuryat | tasmāt bindoh kendraprāpi sutram nayet | yatra
grahyabimbam sprsati tatra raveḥ aparabhage sparsah, candrasya bimbe
purvabhage sparsah | [grahakabimbakendraḥ tu] samparkardhamandale
bhavati | ravigrahane sparsavalanam digvasena manaikyardhaparidhau
purvavat | tadagrāt viksepam yathadisam, candragrahane viparitam
prasarayet | tadagrāt kendraprāpi sutram nayet | yatra grahyaparidhim
sprsati tatra sparsah | moksavalanam ravigrahane purvabhage,
candragrahane aparabhage vyastam prasaryate | tatah moksaviksepam
yathadisam savituh, candrasya viparitam prasarya bindum kuryat |
tadagrāt kendraprāpi sutram nayet | yatra grahyaparidhim sprsati tatra
moksah |

madhyagrahane madhyagrahanavalanam viksepavasat |
samparkardhamandale daksinaviksepe uttaram valanam purvena,
daksinam parena; uttare viksepe, uttaram valanam parena, daksinam
purvena prasarayet | [ravigrahane viparitam karyaḥ |] tadagrāt yamya
uttarekha karya | tanmanaikyardhavr̥ttasampatāt kendraprāpi sutram
nitva rekham kuryat | rekhanusarena kendramadhyat savituh
yathadisam, candrasya viparitam, viksepam prasarya tadagre bindum kuryat
| tasmāt grahakabimbavyasardhena [grahyabimbam] khandayet |
grahyabimbam tavat grastam dr̥syate |

istaparilekhe, pragrahanamadhyamoksaviksepabindutrayerena
matsyadvayam utpadya tanmukhapucchanirgatasutrasampatat
bindutrayerasprksutrena vrttam bhramayet | [sa]
grahyabimbakendramargah | tatra istagrasakarnapramanam [sutram]
kendrat yathadisam grahakamargabhimukham prasarya yatra grahakamargam
sprsati tasmāt grahakardhena parilekhat tatkalahandagrahanam
drsyate |
nimilanonmilanayoh vimardardhaliptabhih istagrasavat karnam
aniya istagrasavidhina nimilanonmilane darsayitavye || 45 ||
[grahyabimbasya varnah]

[grahyabimba]varnapratipadanaya aha ā

pragrahanante dhumrah khandagrahane sasi bhavati krsnah
|
sarvagrāse kapilah sakrsnatamrah tamomadhye || 46 ||

pragrahane sparse, ante mokse, sasi dhumrah bhavati |
khandagrahane krsnah bhavati | khandagrahanam
pragrahanat ardhasannam sarvaiḥ grhyate | sarvagrāse kapilah
sakrsnatamrah tamomadhye | yada sakalam bimbam channam bhavati tada
sarvagrāsah, tatra kapilavarnah | tasmāt parataḥ vimardakalat
madhyam yavat sakrsnatamrah bhavati | suryagrahane punar sarvada
krsnavarnah || 46 ||

[anadesyam ravigrahanam]

grahanopalabdhipradarsanaya aha ā

suryenduparidhiyoge arkastamabhagah bhavati anadesyah |
bhanoh bhasvarabhavat svacchatanutvat ca sasiparidheh || 47 ||

suryenduparidhiyogah suryagrahanam | atra arkabimbasya
astamabhagah channah api anadesyah | bhanoh bhasvarabhavat |
tiksnamsōh bhasvarasvarupatvat iti | candrasya api
svacchatanutvat astamabhagah bimbasya channah api anadesyah iti |
grahyabimbasya astamabhagah manaikyardhat visodhya sesah
istagrasakarnah | tadvargat sphutaviksepavargonat mulam
istonasthitidalaliptah bhvanti | tah sastigunah
gatyantarahrtaḥ ghatikah | tah sparse tithyante visodhayet |
mokse api tithyante yojayet | tau sparsamoksakalau bhavataḥ || 47 ||

[grahasadhanopayah]

grahasadhanopayapradarsanartham aha ā

ksitih aviyogat dinakrt ravinduyogat prasadhayet ca indum |
sasitaragrahayogat tatha eva taragrahah sarve || 48 ||

ksitih ca ravih ca, tayoh yogah ksitiraviyogah | tasmāt ravim
sadhayet | ravinduyogat indum sadhayet | sasitaragrahayogat ca sarve
taragrahah ca sadhaniyah |

dr̥gucchritam salilasamikrtabhupradesamandalakam
cakrabhagankitavrttaparidhim dikcatustayacihnitam karayet | tasya
aparabhage sthitah samvatsarah prakparidhau asaktam udgacchantam
suryam laksayet | tatah tatpradese cihnam krtva tisthet yavat
anyodayam | tatra api yatra paridhipradese suryah uditah laksyate tatra
cihnam nidadhyat | evam udayatrayena catuskena va antaraghatikah
yantradina laksayitavyah | tah ravibhuktayah ravyudayantarale
bhavanti | tah eva sphutaravibhuktiliptah | madhyadinacchayayoh
vedhena tajjyadividhina [ravidvayam anayet] tayoh antaram [va]
sphutaravibhuktih |

atha mesadau pravrtte savitari suryodayah ganyante yavat mesadim
pravisati, te ravibhuyogah jayante | evam samyak upalaksyamanah
ravibhaganabhoge satatrayam pañcasastya adhikam dinam bhavati 365 |
ghatikah pañcadasa 15 | vighatikah ekatrimsat 31 | pranah
sardhaikah 3 2| tah kramena savarnitah upari bhagah 210389,
chedah 576 | evam etaih amsaih sastasaptapañcacchedaih ekah
arkabhaganah | etaih yagadimanam kriyate |

ravinduyogaprasadhanaya suryadhikrantacandram upalaksayet | punar
dvitiyam evam varsam prati jagarena dvadasa ravinduyogah 12,
catvarah rasayah 4, dvadasa bhagah 12, satcatvarimsat
liptah 46, catvarimsat viliptah 40, astacatvarimsat
tatparah 48 | ekena ravibhaganena yutah ete savarnitah

1039560048 77760000

yugatacandrabhaganah trairasikena ã yadi ekena ravibhaganabhogena
etavantah 1039560048 77760000 candrabhaganah labhyante, tada
yuga[ravibhagana]bhogena anena 4320000 kiyantah iti, labdham yuge
candrabhaganah 57753336 |

athava candrasya istasuklapratipat arabhya pratidinam candrodayam
upalaksya binduh karyah yavat ravibhaganam | evam ravibhaganabhoge
candrodayasamkhyah jatah

352 53 23 28 12

savarnitah 352 | 11532492 216000

etaih trairasikam ã yadi ekasmin [ravi]bhaganabhoge etavantah
[candrodayah] bhavanti, [tada yuga]ravibhaganabhoge kiyantah | pragvat
yuge candrodayah jatah 1524484164 | ksitibhaganebhyah 1582237500
suddhah yugacandrabhaganah 57753336 |

sasitaragrahayogan sasibhaganebhyah visodhya sesam
istagrahasya bhaganah | varsam prati jagarena
candrabhraspatiyogah bhaganah 13, rasayah 3, bhagah 12,
liptah 25, viliptah 33, tatparah 36 | ete kramena savarnitah
jatah

1033004016 77760000

yadi ekasmin ravibhagane etavantah 1033004016 77760000 gurusasiyogah
labhyante, tada yugaravibhagane 4320000 kiyantahjiti, labdhah yugabde
gurusasiyogah 57389112 candrabhaganebhyah 57753336 visodhya sesam
gurubhaganah yuge jatah 364224 | evam bhaumadinam api
ravibhaganabhogam yavat candrena saha yogan prasadhya
grahabhaganasadhanam kartavyam | margadarsanam eva etat asmadadinam
avisayah |

budhasukrayoh sighrasadhanam | pracyam astamitah pascata
yavadbhih dinaih uditah tavatam dinanam ardhm udayadinebhyah
patayet astamitadinesu ksipet | punar pracyam yada astamayah
praticyam udayah tada anena eva vidhina niramsadinasiddhih karya |
tayoh adyantanimasayoh madhye sighrakendrabhaganah bhavati |
budhasya sighrakendrabhaganadinani asannani 116, sukrasya 584 | etaih
bhudinebhyah 1577917500 bhagam datva labdham
budhasukrasighrakendrabhaganah bhavanti |

ravyucca[paridhi]sadhanam | madhyahnacchayaya ravim prasadhya
taddinamadhyamaravina visesya madhyame adhike rnam, dhanamule | evam
pratidinam upalabhya yavat vardhamanam raviphalam sthiribhavati, tatphalam
paramaphalam | tatah param hrasam esyati | paramaphaladine madhyame arke
rnaphalopalaksite rasitrayam sodhayet, sesam ravimandoccam |
dhanaphalopalaksite rasitrayam ksipet, mandoccam bhavati |
paramaphalajya cakramahata trijyahrta raveh paridhih bhavati |

candroccaparidhisadhanam | suryastamayata krsne pakse yavatibhih
ghatikabhih candrodayah bhavati ghatikayantrasadhitabhih
tabhih sadrasiyutat arkat lagnam svodayaih triprasnoktavidhina
kartavyam | sa sphutacandrah | tat
tatkalikamadhyamacandravislesasesam mandaphalam dhanum rnam va |
evam pratyaham upalaksayet purvavat yavat vardhamanaphalam sthiribhavati
| tatah ravivat uccaparidhisadhanam | evam pratidinam kuryat yavat
madhyamasphutayoh na kiñcit antaram syat | sa eva candrah taduccam
bhavati | taddinaparamaphalapatadinocchayoh antaram krtva
taddinaparamaphalarkayoh antaram karyam | tata[h traikasikam] ã yadi
anena gatyantarena etat uccantaram, tada suryabhaganaih kim iti
androccabhaganasiddhih |

candrasya patabhaganasadhanam | candragrahane [sparsakalat]
madhyagrahanam yavat sthityardhaghatikah candragrahanakalotpannah
tah sphutasuryasasibhuktyantarena gunayet, sastya vibhajat,
sthityardhaliptah syuh | tadvargam samparkardhavargat visodhya
sesasya mulam candraviksepah | sa trijyahatah khagaksibhaktah
[270] kashthitah bhujacapatam | evam moksam api [sthityardham]
madhyagrahanat janiyat | yadi prathamasthityardham mahat ojjapade grahah
bhavati, anyatha yugmapade syat | yadi uttaraviksepah visamapade
bhujacapatam sphutam, yugmapade cakrardhat visodhya bhavati |
daksinaviksepe visamapade cakrardham ksipet, yugmapade cakrat
visodhayet | sa bahuh syat | evam svadhiya sesam ca | evam anyat

grahanakalikam bahum utpadayet | ubhayoh antaram sadhayet |
grahanadvayakalantaraja tatpatabhuktih | tatah
candrapatabhaganasiddhih |

athava candrasya dinardhacchayaya krantim uktavat prasadhayet | tasyah
taddinacandrakrantyantaram viksepah | sesam pragvat iti |

budhasitayoh yavata ratrigatakalena astamayah jayate tavata lagnam
sadrasiyutam sphutah budhah sukrah ca | sesanam candravat
anayanam ratrigate kale | madhyasphutayoh antaram mandaphalayutaviyutam
sighraphalam | punar pañcabhih ahobhih phalasadhanam kartavyam |
prakphalena saha vislesayet | evam tavat pariksayet yavat vardhamanam
sighraphalam sthiribhavati | evam svadhiya abhyuhya
sighrocca[paridhi]sadhanam | taragrahayogantararat grahaviksepasadhanam
kartavyam | udayastamayavakranuvakraih sighrabhaganasadhanam vidheyam
| athava graham yastyadiyantrena viditva dvitiye api dine tavati eva
kale viddhyat, tadantaram sphutabhuktih | sa madhyamabhukteh yada
una syat tada kaksyamandalat upari grahah, adhika cet tada
adhah vartate | tadbhumadhyantaram karnah | tadvasat paramalpatam
paramadhikatam ca bhukteh laksayet iti bhaganabhogam yavat |
bhaganabhogah madhyamagatya eva bhavati | evam mandaphalasya
paramadhikatam laksayitva paramamandakarnavyasardhantaram
paramaphalam mandam bhavati || 48 ||

[sampradayasamsmaranam]

bhaganadinam pramanani katham jñatani acaryena
tatpratipadanaya aha ã

sadasajjñanasamudrat samuddhrtam brahmanah prasadena |
sajjñanottamaratnam maya nimagnam svamatinava || 49 ||

sadasat sat asat | sat subham, asat asubham | jñanam jñayate anena iti |
sajjñanottamaratnam sat jñanam tat eva uttamaratnam, utkrstam ratnam,
jyotihsastram | nimagnam nilinam | svamatinava svakiya matih
(svamatih), svamatih eva nauh taya svamatinava sadasajjñanasamudrat
samuddhrtam iti || 49 ||

[pratikañcukakarine dandavidhanam]

sapathapratipadanaya aha ã

aryabhatiyam namna purvam svayambhuvam sada nityam |
sukrtayusoh pranasam kurute pratikañcukam yah asya || 50 ||

aryabhatasya idam aryabhatiyam | kim tat? yada eva
atyantavipralinasampradayam brahmanah prasadena va svanamadheyam |
yah purvam svayambhuvam asit idanim aryabhatena prakasitvat
aryabhatiyam | svayambhuvam tat sarvada nityam | svayambhuva
pranitam artham grhitva acaryah sastrani racayanti |
sampradayavicchedat tu sah arthah jñatah eva | anyatha
atindriyarthanam katham manusamatraih iyam yuktih kartum sakyate |

asya pratikañcukam pratibimbam yah karoti tasya sukrtasya ayusah ca
pranasam bhavati || 50 ||

[somesvarabhasyasya upasamharaslokaḥ]

spastarthapratipadakaṃ mrdudhiyaṃ suktam prabodhapradam
tarkavyakaranadisuddhamatīna somesvarena adhuna |
acāryāryabhatoktasutravivṛtiḥ ya bhaskarotpādita
tasyaḥ sarataram vikṛsya racitam bhāsyam prakṛtam laghu ||

iti somesvaraviracitam āryabhatīyaṃ bhāsyam samaptam |

[bhaskarabhāsyasya upasamharaslokaḥ]

atīndriyarthapratipadakaṇi
sutrāṇi amūṇi āryabhatodītāṇi |
tesaṃ asakyaḥ arthasatamsakāḥ api
vaktum kutah asmatsadṛśaiḥ asesaṃ ||

iti bhaskarasya kṛtau āryabhatatantrabhāsyē

golapadaḥ samaptah |

— Aryabhata: Aryabhatīya with the Commentary of Bhaskara I and Somesvara (Academic edition — see source file header)