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Contact:

Email: [landesbibliothek\(at\)ooe.gv.at](mailto:landesbibliothek(at)ooe.gv.at)

Telephone: +43(732) 7720-53100

mandum iter Ellipticum, vectem tamen eripit; aream scilicet trianguli transfert in punctum æquatorium Ptolemaicum, focorum Ellipsis alterum, circa quod Anomalia media æqualibus ordinetur angulis; sed quæ in effectu Longitudi-

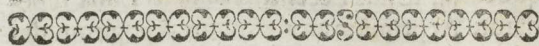
nis, quam hic spectamus, cum Æquante Ptolemaico penitus coincidit. En ergo Typum omnium & in ejus arearum Æquationibus in Luna quidem propinquitatem numerorum inopinabilem.

Equipollentia quanta in Longitudine.

	IN ANOMALIA MEDIA			Semidiametri Epicyclorum, seu Eccentricitates.
	44°.42'.16"	90°.29'.52"	134°.49'.39"	
Per Eccentricum perfectum vel Epicyclum simplicem in Concentrico	3. 18. 19	4. 59. 20	3. 46. 22	8724 Ptolemaei & Copernici
Per Vectis & Librationes	3. 22. 58	4. 59. 39	3. 41. 3	4362 Mea
Per Eccentricum, vel Ellipticam, & punctum Æquatorium	3. 24. 18	5. 59. 33	3. 38. 43	Ecc. 4362 Ptolemaei in Planis Æq. 8724 & P. Curtij
Per duplicationem Epicycli	3. 25. 26	4. 59. 33	3. 37. 29	Maj. 5832 Copernici in Planetis Min. 2916 & Tychonis in Luna.

Longissimè scilicet Tycho, Copernicum in Planetis imitatus, recessit à Ptolemaeo & Copernico in Luna ad Scr. usq; 7 & 9; medium, sed Tycho propiora tenemus, Ptolemaeus à Planetis traductus in Lunam, & Ego, mediisque Curtius. Quos inter, cum Observatio Longitudinis Lunæ judicium ferre nequeat, quippe de 2 scrupulis: quid causæ sit, cur non causas naturales vectis, quas requirunt cæteri Planetæ, probat ratio, audiam etiam in Luna, sequente facilitate calculi: etsi de hoc cum Curtio jam nominato certamen mihi est æqualitatis. Quin, quod hanc attinet, Tabulis jam confectis, nihil amplius interest utentis, quanta facilitate sint computatæ. Satis itaque de prima Lunæ Æqualitate, Soluta dicta.

Calculi facilitas.



CAPUT XXVI.

DE MENSTRUUA LUNÆ ANOMALIA ET ÆQUATIONIBUS.

RANSEAMUS ad alterum genus Anomaliæ, Menstruum, seu ad Copulas & Quadraturas Solis alligatum; cujus causâ seorsim de Lunâ fuit agendum in his præceptis. In hac Anomalia multò patebit evidentiùs, causas motuum esse physicas, ac propterea non injuriam à me factam circulis & orbibus, centrisq; angulos in tempora admetientibus æquabiliter, quod ijs valedixerim. Ptolemaeus, cui menstruarum inæqualitatum una sola erat nota, cum videret, æquationes Lunæ, de quibus hæctenus, provenire majores in Quadris, quàm in Copulis; ut hoc assequeretur positionibus suis, calculumq; huic observationi conformaret: Epicyclum Lunæ, quem prioris SOLUTÆ Inæqualitatis causâ introduxerat, docuit motu vero & reali ad terram sese demittere bis in mense, sc. in utraq; Quadrâ.

Ptolemaei Hypothesis menstrua.

Redarguit à Regiomontano.

Hoc ita creditum fuit astronomis, usq; ad Regiomontanum; qui vidit, si Epicycli æquationes ex appropinquatione fieret majores, fore ut & corporis Lunæ Diameter in quadris repræsentetur major semisse ejus, quod habet in copulis.

Hoc verò cum redarguerent observationes: falsum igitur apparuit illud tantæ appropinquationis dogma. Copernicus, hac causâ phænomeni convulsa, substituit aliam, realem & ipsam, Epicyclos duos pro Ptolemaico uno, majorem quidem, qui centrum minoris veheret, minorem, qui Lunam ipsam, in Quadris eam præstans remotissimam à centro majoris.

Transformata à Copernico in Epicyclum secundum. A Tycho in Hypocyclum.

Quid faceret Tycho, totus perfectioni motuum tunc addictus, in circulis perfectis? Copernicum imitari etiam in Menstruæ inæqualitatis positionibus erat difficile; jam dudum enim propter Solutam Anomaliæ, de qua superiori capite, duos receperat Epicyclos. Quorum jam reponeret tertium, quem Copernicus dedit Anomaliæ menstruæ? Nimirum ex Orbe Lunæ decerptum, Terræ applicuit, centrum ejus locans in linea, quæ parallela esset lineæ Apogæi Epicycli. In hujus jam non Epicycli sed Hypocycli circumferentiâ fixum centrum Orbis Lunæ, duos priores Epicyclos deferentis, sic incidere iustum est, ut in Copulis veniret in ipsum centrum Terræ; in Quadris ab eo longissimè omnium recederet. Et tamen adhuc aliam Tycho Variationem deprehendit, inobservatam veteribus; cujus effectrices machinas non est ausus inferre Systemati orbium Lunæ; transcripsit igitur eos ipsi Zodiaco. Oculos aperuit illi tandem hæc Inæqualitas ultima; ut videre inciperet, non circulis realibus, sed causis naturalibus aliis, has inæqualitates effici. Quid ego, Tycho mortuo? Dicam verbo: Nodum Gordium nihil attinebat solve-re, secui. Post diutinas enim contemplationes, post transformationem non unam, tandem apparuit; Anomaliæ menstruæ causâ, nihil mutandum nec in figura Orbitæ Lunæ, nec in ejus intervallis; omnem enim eam sequi rationes illuminationis; ad quas, motuum ejus incitationes refrænationesq; naturales, seu vi lucis ipsius, seu ministerio animali accommodarentur. Demonstrationes ipsas longum est hic explicare, perat eas, qui desiderat, ex Epitoma Astron. Magis est ex instituto præsentis operis, Schematum explicatione, fundamenta struere calculi, ne ijs ignorantis, in amœnior fiat Calculi labor, per se satis tedious, ob miram cautionum varietatem, quas parit hæc non posita de novo, sed ultrò ex Naturâ oblata Hypothesis.

A me in causas naturales, & illuminationem Solis.

Manen-