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P R O O E M I V M.



ASTRONOMIA, qua de syderum motibus agit, Astronomiæ in partes diuisio. duas præcipuè partes habet, altera in inquirenda & cognoscenda forma motuum consistit, Philosophica contemplationi potissimum seruiens; altera ex illa orta, loca syderum ad quoduis momentum inuestigat, & ad praxin sese accommodat, prognosi fundamenta iaciens. Binæ hæ partes geminis quasi alis, quod Plato dicere solitus est, subnixæ, in cælum euolant, Geometria & Arithmetica, quarum utraq; quidem utriq; dictarum partium, magis tamen Geometria contemplatrici, Arithmetica practica parti famulatur. Summus itaq; Astronomiæ apex in partem desinit Arithmeticam, quæ Tabulas motuum, & inde derivatas Ephemeridas complectitur.

Pars Geometrica multas sub se habet alias pro diuersitate materiæ, quam in Astronomia Geometrica sinceritas induit. Cum enim, ut ab ouo rem deducam, in demonstrationibus Astronomicis duo sint principiorum genera, alterum Obseruationes, alterum Axiomata Physica seu Metaphysica. Circa Obseruationes quidem tres partes Astronomiæ oriuntur, prima Mechanica, Instrumenta tradens, obseruandis motibus cælestibus idonea, modumque ut endi: quam Phœnix ille Astronomorum, Tycho Brahe p. m. ante quinquennium edidit: altera Historica, Obseruationes ipsas complexa: cuiusmodi exquisitissimarum Obseruationum, annos propemodum 40. præteritos complectentium, libros 24. Lector sciat à Tychone relictos esse, quos opportuno tempore in lucem prodituros spero. Quia vero omnis obseruatio cælestis fit mediante luce vel umbra, mediæque stellas inter & oculum distinctas habent affectiones, & qua in cælo obseruamus, vel motus sunt, quorum species retrogradatio, statio &c. vel arcus,