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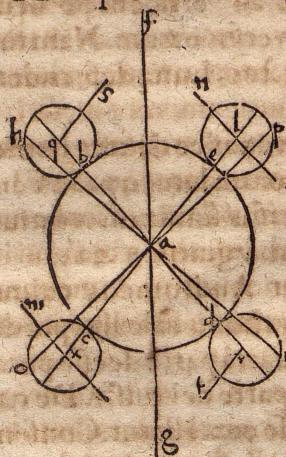
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Problema XXXI.

An possibile sit, principium alicuius Solaris defectus in ortum vergere, aliterius finem in occasum: Luna verò deficientis principium in occasum, alio tempore finem in ortum.

Hoc est inter paradoxa à Plinio proposita. Nam Solem ordinaria via ab occasu deficere conuenit sub principium: impleri ab ortu: Lunam contra ab ortu incipere, ab occasu definere. A Luna incipiamus. Centro A scribatur circulus vmbrae terræ BCDE. per A ducatur recta FG. representans verticalem: per



idem ducatur & HI arcus Eclipticæ occasui proxim^o, vt FAH sit angulus inter Eclipticam & verticalem. Et ipsi HI ad rectos agatur KL. Quod si centrum Lunæ est in K vel L. veræ cõiunctionis articulus erit. Tunc igitur æquet summa semidiametrorum Lunæ & vmbrae, latitudinem Lunæ veram, in K australem decrefcentem, vt fit via Lunæ KM versus Eclipticam: in L borealem crescentem, vt fit via Lunæ LN ab Ecliptica. Vtrinque igitur aliqua particula Lunæ deficiet (nam hac quoque correctiun-

culâ authores indigent in hoc quidem negotio) Luna enim paulò post K. & paulò ante N. centro A fit propior, propter obliquitatem viæ Lunæ ad Eclipticam: & in eo via sua puncto, in quod ex A perpendicularis incidit, defectus est maximus. Et mensuræ causa. Vt secans graduum 5 (latitudinis maxime) 100382 ad radium, ita summa semidiametrorum, quam assumeamus 60 scrupula, ad distantiam centrorum in defectu maximo 59'. 46". Ita 14" incidunt in defectum: pars quidem exigua, non planè centesima. Nos tamen hic apices summos sequimur. Nihil prohibet, idem quod hic demonstramus, contingere, etiam cum Luna in K non nihil vmbra delibauit. Erit autem in K principium, in L finis defectus, & C contactus circulorum, seu