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978-1-108-06185-8 - Apollonii Pergaei Quae Graece Exstant Cum Commentariis
Antiquis: volume 2
Edited by Johan Ludvig Heiberg
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From the Renaissance to the nineteenth century, Latin and Greek were compulsory subjects in almost all European universities, and most early modern scholars published their research and conducted international correspondence in Latin. Latin had continued in use in Western Europe long after the fall of the Roman empire as the lingua franca of the educated classes and of law, diplomacy, religion and university teaching. The flight of Greek scholars to the West after the fall of Constantinople in 1453 gave impetus to the study of ancient Greek literature and the Greek New Testament. Eventually, just as nineteenth-century reforms of university curricula were beginning to erode this ascendancy, developments in textual criticism and linguistic analysis, and new ways of studying ancient societies, especially archaeology, led to renewed enthusiasm for the Classics. This collection offers works of criticism, interpretation and synthesis by the outstanding scholars of the nineteenth century.

Apollonii Pergaei quae Graece exstant cum commentariis antiquis

The Greek astronomer and geometrician Apollonius of Perga (c.262–c.190 BCE) produced pioneering written work on conic sections in which he demonstrated mathematically the generation of curves and their fundamental properties. His innovative terminology gave us the terms ‘ellipse’, ‘hyperbola’ and ‘parabola’. The Danish scholar Johan Ludvig Heiberg (1854–1928), a professor of classical philology at the University of Copenhagen, prepared important editions of works by Euclid, Archimedes and Ptolemy, among others. Published between 1891 and 1893, this two-volume work contains the definitive Greek text of the first four books of Apollonius’ treatise together with a facing-page Latin translation. (The fifth, sixth and seventh books survive only in Arabic translation, while the eighth is lost entirely.) Volume 2 contains the fourth book in addition to other Greek fragments and ancient commentaries, notably that of Eutocius, as well as the editor’s Latin prolegomena comparing the various manuscript sources.

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VOLUME 2

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APOLLONII PERGAEI
QUAE GRAECE EXSTANT

CUM COMMENTARIIS ANTIQUIS.

EDIDIT ET LATINE INTERPRETATUS EST

I. L. HEIBERG,

DR. PHIL.

UOL. II.



LIPSIAE

IN AEDIBUS B. G. TEUBNERI.

MDCCCXCIII.

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PRAEFATIO.

Praeter librum IV Conicorum hoc uolumine continentur fragmenta Apollonii, lemmata Pappi, commentaria Eutocii. in fragmentis apud Pappum seruatis lemmatisque eius edendis Hultschium secutus sum. sicubi ab eo discessi, scripturam eius indicaui; codicis raro mentionem feci. de numero lemmatum Pappi hoc addo, Pappi VII, 246 suo numero designandum esse, sicut factum est in VII, 254, 256; nam ita demum numerum lemmatum LXX adipiscimur, quem indicat Pappus ipse p. 682, 22: *λήμματα δὲ ἦτοι λαμβανόμενά ἐστιν εἰς ἀνὰ ο'.* his enim uerbis, quae genuina sunt, minime significantur lemmata „quae insunt in libris“, sed ipsa lemmata Pappi ad eos adsumpta, sicut lemmata XX libri de sectione proportionis p. 640, 23 Pappi sunt VII, 43—64, librorum de sectione determinata XXVII et XXIV p. 644, 20 Pappi VII, 68—94, 95—118, locorum planorum VIII p. 670, 2 Pappi VII, 185—192, porismatum XXXVIII p. 660, 15 Pappi VII, 193—232, librorum de inclinationibus XXXVIII p. 672, 16 Pappi VII, 120—131, 132—156 (nam VII, 146 et lemmata I, 4, 8; II, 12 in bina diuidenda sunt; cfr. p. 798, 19).¹⁾ in libris

1) Itaque in libris tactionum aliquid turbatum est; nam p. 648, 16 lemmata indicantur XXI, cum tamen sequantur XXIII (VII, 158—184) siue XXVII, si lemmata 10, 12, 13, 22 in bina diuiduntur.

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PRAEFATIO.

de sectione spatii nullus numerus lemmatum indicatur p. 642, 17, quia prima XIX ad librum de sectione proportionis etiam ad illos ualent (u. p. 700, 9, ubi scribendum *τὰ δὲ καί*).

In Eutocio his siglis usus sum:

W — cod. Uatic. gr. 204 saec. X, de quo u. Euclidis op. V p. XII. interdum manus prima alio atramento in lacunis quaedam suppleuit, id quod W¹ significauit (II p. 168, 7, 8, 18; 170, 2, 8, 13, 19—20; 216, 8, 10; errores paruulos correxit p. 170, 15; 216, 17). adparet, librarium in antigrafo suo his locis lacunas uel litteras euanidas habuisse, quas ex alio exemplari suppleuit (u. p. 170, 24); p. 168, 19 lineolam transuersam addidit, quia lacunam reliquerat maiorem quam pro uera scriptura postea aliunde sumpta.

v — cod. Uatic. gr. 203, de quo u. I p. V.

w — cod. Uatic. gr. 191, bombyc. saec. XIII; continet Euclidis catoptrica, phaenomena, optica, data cum fragmento Marini, Theodosii sphaerica, de habitationibus, de diebus et noctibus, Aristarchum, Autolyçi de ortu, Hypsiclem, Autolyçi de sphaera mota, Eutocium, Ualentis Anthologiam, Ptolemaei geographiam, Procli hypotyposes, alia astronomica.

p — cod. Paris. 2342 saec. XIV, de quo u. I p. V.

U — cod. Urbinas 73, chartac. saec. XVI; continet Eutocium solum foliis XXX cum correcturis plurimis, quarum pleraeque alia manu factae sunt.

Praeterea hosce codices Eutocii noui:

1. cod. Uatic. 1575 saec. XVI, de quo u. infra p. XI.
2. cod. Mutin. II D 4 saec. XV, de quo u. infra p. XII.

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V

3. cod. Paris. Gr. 2357 saec. XVI, de quo u. infra p. XIII.

4. cod. Paris. suppl. Gr. 451 saec. XV, de quo u. infra p. XIII.

5. cod. Paris. Gr. 2358, chartac. saec. XVI, olim Colbertin.; continet Eutocium fol. 1—32, Sereni opuscula fol. 33—94.

de cod. Barberin. II, 88 chartac. saec. XV—XVI, qui inter alia mathematica etiam Eutocium continet, et de cod. Ambros. C 266 inf., olim Pinellii, qui fol. 250—254^r Eutocii commentariorum initium (usque ad II p. 190, 3) continet, nihil notauit.

Iam de cognatione ceterorum codicum uideamus.

codicem w ex W descriptum esse, ostendit eius ^{Uat. 191} in omnibus mendis grauioribus consensus, uelut II p. 292, 1; 308, 14; 310, 6; 326, 13; 338, 15; 342, 20; 344, 14; 346, 17, 19 lacunas eodem modo reliquit; p. 274, 5 pro *διάμετρον* cum W *καὶ ἄμετρον* habet; cfr. praeterea

II p. 172, 21 *AEZ*] om. W in fine uersus, om. w;

p. 180, 24 *πρός* (alt.)] *πρό* W in fine uersus, *πὸ* w;

p. 286, 21 *ῥών* (alt.)] om. W in fine uersus, om. w;

p. 306, 2 *AB*] *AB* | *AB* Ww.

scripturas meliores rarissime habet, uelut II p. 170, 14; 218, 10.

ex w rursus descriptus est v, sicut uel hi loci ^{Uat. 203} ostendunt: II p. 190, 26 *καὶ διάμετρος* — p. 192, 1 *ἴση*] W, om. ww; p. 200, 15 *φησὶν*] W, om. ww. neque enim w ex v descriptus esse potest, ut ex scripturis infra adlatis adparet. emendatio igitur II p. 274, 22 in v coniectura inuenta est.

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VI

PRAEFATIO.

Urb. 73 e v descriptus est U; u. II p. 326, 13 *HΘ κατ]*
HΘK cum lacuna 2 litt. Ww, *ηθκ* v, *ή θκ* U, *θη*
 m. 2; p. 342, 16 *εἰς τὸ λγ'*] Ww, om. vU, *εἰς τὸ λδ'*
 mg. m. 2 U.

Paris. suppl. praeterea e v descripti sunt codd. 4 et 5; u. II
 451, Paris. p. 168, 9 *ἐπινοῆσαι]* Ww, *ἐπιχειρῆσαι* vU, 4, 5,
 2358 corr. m. 2 U et 5; II p. 170, 11 *ἐν]* Ww, om. vU, 4, 5,
 corr. m. 2 U.

Mutin. etiam cod. Mutin. II D 4 ex v pendere, demon-
 strabo infra p. XXI.

Uat. 1575 codd. 1 et 3, quorum uterque ab Ioanne Hydrun-
 Paris. 2357 tino scriptus est, ab ipso W pendent; nam summa
 fide omnia eius vitia, etiam minutissima, repetunt.

Paris. 2342 p quoque ex W pendet; nam non modo saepissime
 eosdem errores stultos habet (II p. 174, 14; 176, 24;
 180, 6; 194, 4; 212, 15; 214, 4, 12; 222, 13, 16; 228, 5;
 234, 17; 238, 25; 248, 20; 268, 7; 274, 22; 278, 1;
 280, 1, 4, 12; 284, 7; 302, 3, 5; 308, 23; 312, 3; 314, 6;
 320, 9, 15; 324, 2, 11; 346, 1; 350, 9; 358, 2; 360, 5)
 et easdem lacunas omissionesque (II p. 196, 26;
 218, 10; 290, 8; 292, 1, 14; 306, 8; 308, 14; 310, 6;
 334, 22; 338, 15; 340, 13, 15; 342, 20; 344, 14;
 346, 17, 19; 352, 19); sed loci haud ita pauci eius
 modi sunt, ut demonstrare uideantur, eum ex ipso W
 descriptum esse. cuius generis haec adfero:

II p. 172, 21 *ΑΕΖ]* om. W in fine uersus, om. p;
 p. 200, 5 *τέμνονσα]* *τέμνουσϞ* W, *τέμνονσαι* p;
 p. 208, 23 *NΘ]* W, sed *N* litterae *H* simile, *HΘ* p;
 p. 286, 21 *τῶν* (alt.)] om. W in fine uersus, om. p;
 p. 294, 1 *κατασκευήν]* seq. lacuna, ut uidetur, propter
 figuram W, lac. p (nihil deesse uidetur);

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PRAEFATIO.

VII

- II p. 306, 2 *A, B*] *AB* | *AB* *W*, $\overline{\alpha\beta}$ $\overline{\alpha\beta}$ p;
 p. 328, 4 *AHA*] *H* litterae *II* simile *W*, *AIIA* p;
 p. 340, 16 *την ΑΞ*] *τη νλξ* *W*, *την λξ* p;
 p. 356, 7 *καί* (pr.)] 'ἔστωσ' *καί* m. 1 *W* (h. e. ἔστω-
 σων ex lin. 6 repeti coeptum, sed deletum),
 ἔστωσ *καί* p.

hoc quoque dignum est, quod commemoretur, scripturam II p. 170, 24 a *W*¹ ex alio codice enotatam etiam in p eodem modo in mg. exstare. cfr. p. 220, 16.

sane constat, p plurimis locis, ne de correctis erroribus dicam, qui ex permutatis uocalibus *η* et *ι*, *ο* et *ω* orti sunt, meliores scripturas exhibere (II p. 172, 2, 18; 174, 22; 188, 10; 190, 15, 18; 192, 15; 194, 20, 26; 196, 17; 198, 8, 13; 208, 13, 14; 210, 22; 218, 17; 220, 18?; 240, 12, 13, 27; 246, 2; 248, 2, 23; 254, 5, 8; 260, 4, 21; 262, 20, 22, 27; 264, 24; 268, 13; 274, 5; 276, 17; 280, 19; 282, 20; 284, 17, 19; 286, 19; 290, 18; 294, 7; 298, 8, 10; 300, 20; 302, 13; 304, 13, 16; 306, 3, 9; 310, 14, 15; 312, 1, 2; 316, 23; 326, 16; 330, 7; 332, 21; 336, 19; 348, 5, 9; 352, 2, 15; 358, 8, 20; 360, 7). sed harum omnium emendationum nulla est, quae facultatem librarii uerborum rerumque uel medio-criter periti excedat. quare cum librarius codicis p in Apollonio uel emendando uel interpolando et peritiam suam et audaciam ostenderit, ut infra certis documentis arguamus, non dubito haec omnia coniecturae eius tribuere. et hoc aliis rebus confirmatur. nam primum p interdum falsam scripturam codicis *W* habet postea demum a manu prima correctam (II p. 184, 27; 214, 12; 316, 16; 348, 14; cfr. p. 234, 22;

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VIII

PRAEFATIO.

272, 6; 352, 24). est etiam, ubi errorem subesse perspexerit, sed lacunam reliquerit, quia in eo emendando parum sibi confideret (II p. 244, 10, 13; 248, 6, 9; 322, 13; cfr. p. 182, 25); II p. 296, 6 ei accidit, ut pro uera scriptura *ἡμέραν*, quam non intellexit, *ἡμε* sequente lacuna poneret. locis non paucis interpolatio manifesta est, cum aut errores recte deprehensos male corrigit (II p. 200, 25; 202, 21; 242, 5; 270, 7, 10; 296, 24; 302, 13; 304, 1, 8; 306, 7; 308, 26; 326, 13; 338, 14; 342, 15; 352, 5) aut scripturam bonam suo arbitrio mutat (II p. 168, 12; 176, 24; 236, 3; 294, 23; 310, 2; cfr. quod II p. 274, 3 *γεναιμένην* in *γενομένην* corrigit, et quod in uerbo *ἐπίσσω* semper formas sine augmento praefert, u. II p. 292, 19; 294, 8, 23; 330, 12; 332, 12). II p. 194, 26; 260, 1; 274, 5 cum manu recenti codicis W conspirat.

adparatus Ex his omnibus sequitur, in Eutocio edendo codicem W solum auctorem habendum esse. itaque eius discrepantias omnes in adparatu critico dedi. sed cum p tot coniecturas probas habeat, eius quoque scripturam plenam recepi, nisi quod de formis *ἐστὶ* et *ἐστίν* nihil adnotaui; ex ceteris codicibus pauca tantum de Uvw notaui, reliquos prorsus neglexi.

Iam de genere codicis W uideamus. commentaria **Uat. 204** Eutocii in eo excerpta esse e codice Conicorum, ubi in margine adscripta erant, sicut ab initio ab Eutocio ordinatum fuerat, infra exponam; margines huius codicis laceros fuisse, sub finem maxime, ostendunt lacunae plurimae ab ipso librario significatae.

praeterea eum litteris uncialibus scriptum fuisse, adparet ex erroribus, quales sunt II p. 174, 23 ΠΛΑΘΝ

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pro ΠΑΩΝ, p. 202, 21 ΗΝΕΥΘΥCΑΝ pro ΗΝΕΥΟΥCΑ,
p. 274, 5 ΚΛΙΑΜΕΤΡΟΝ pro ΔΙΑΜΕΤΡΟΝ. compendiis
eum repletum fuisse, colligimus ex his locis:

- II p. 186, 7 μέσων] σημείων W permutatis $\overset{\sigma}{\mu}$ et $\overset{\mu}{\sigma}$;
p. 194, 4 ΒΑ] βάσις W ($\overline{\beta\alpha}$ et $\overline{\beta\alpha}$);
p. 254, 23 μάλλον] ἔστω W permutatis (μα) λλ' et μ;
p. 306, 14 ἀπό] αλ W non intellecto compendio Α';
cfr. p. 248, 23;
p. 324, 15 ἴσον] ἐν W male intellecto compendio υ;
p. 350, 12 δῆλον] δή W; fuit δῆ^λ;
p. 352, 5 τὸ ὑπό] τοῦ W; fuit το γ'.

menda quavis fere pagina obuia, quae e permutatis
uocalibus ι et η, ο et ω, ει et η, αι et ε orta sunt,
et in litteris figurarum, ubi saepissime permutantur
Θ—Ε—Ο—C, Γ—Π—Τ, Λ—Δ—Λ, Ν—Η—Μ—Κ,
Π—Η, Ξ—Ζ, fortasse ipsi librario codicis W tri-
buenda sunt.

De editionibus Eutocii brevis esse possum.

Commandinus codice Urbin. 73 usus est, nec ^{Commandinus}
dubito, quin eius sint emendationes margini illius a
manu 2 adscriptae; u. II p. 168, 20 ὀρθήν] Urbin.,
mg. m. 2 „for. γωνίαν πλευρᾶς“; haec uocabula ad-
didit Commandinus fol. 4ⁿ; II p. 170, 18 γραμμῶν]
Urbin., mg. m. 2 „for. τομῶν“; sectionum Comman-
dinus fol. 4ⁿ; II p. 306, 2 Α, Β] $\overline{\alpha\beta}$ $\overline{\alpha\beta}$ Urbin., mg.
m. 2 $\overline{\alpha\beta}$ $\overline{\gamma\delta}$; *ab*, *cd* Commandinus fol. 54ⁿ; cfr. II
p. 180, 13; 256, 11.

Halleius, qui adhuc solus Eutocium Graece edidit, ^{Halley}
codice usus est Barocciano Bibliothecae Bodleianae
(praef. p. 2). is ubi hodie lateat, nescio; sed eum

X

PRAEFATIO.

ex Urbin. 73 descriptum fuisse, constat his locis collatis:

II p. 174, 23 ἐπὶ πασσῶν] ἐπὶ πλέον Urbin., mg. m. 2
 „for. ἐπὶ πάντων“, et sic Halleius uitio non intellecto;

II p. 202, 23 μένον] Urbin., mg. m. 2 „for. hic addenda sunt ut inferius πρὸς τῆς κορυφῆς τῆς ἐπιφανείας“; μένον πρὸς τῆ κορυφῆ τῆς ἐπιφανείας Halley;

II p. 274, 10 νδ'] Urbin., νγ' m. 2; et ita Command., Halley;

II p. 288, 3 νδ' καὶ νε'] Urbin., νγ' m. 2, Comm., Halley;

II p. 288, 4 νς' καὶ νζ' καὶ νη'] Urbin., νδ' m. 2, Comm., Halley;

II p. 288, 5 νθ'] Urbin., νε' m. 2, Comm., Halley;

II p. 288, 6 ξ'] Urbin., νς' m. 2, Comm., Halley;

II p. 326, 13 ΗΘ καὶ] ἠ̄ θκ Urbin., ΘΗ m. 2, Halley.

Scribendam Hauniae mense Septembri MDCCCXCII.

I. L. Heiberg.

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PROLEGOMENA.

Cap. I.

De codicibus Conicorum.

Codices Conicorum mihi innotuerunt hi

1) Cod. Vatican. Gr. 206, de quo u. I p. IV.

2) Cod. Vatican. Gr. 203, bombyc. saec. XIII (cfr. I p. V); continet fol. 1—44 Theodosii sphaerica, de habitationibus, de diebus et noctibus, Autolycei de sphaera mota, de ortu et occasu, Hypsiclis anaphor., Aristarchi de distantibus, fol. 44—55 Eutocii commentarium in conica, omnia manu negligentis et celeris scripta; deinde manu elegantis et accurata fol. 56—84 Apollonii Conic. I—IV, fol. 84—90 Sereni de sectione cylindri, fol. 90—98 Sereni de sectione conici; huius operis versus ultimi tres eadem manu scripti sunt, qua prior pars codicis.

3) Cod. Vatican. 205, chartac. saec. XVI, elegantissime scriptus et magnifice ornatus; continet p. 1—75 Apollonii Conic. I—II (p. 76 uacat), p. 77—141 libb. III—IV (p. 142 uacat), p. 143—168 (a manu uetustiore numerantur 1—26) Sereni de sectione cylindri, p. 169—207 (27—65) Sereni de sectione conici; p. 207 (65) legitur: hoc opus ad huius bibliothecae Palatinae usum ego Ioannes Honorius a Mallia oppido Hydruntinae Dioecesis ortus librorum Graecorum instaurator sic exscribere anno dñi MDXXXVI Paulo III pont. max.

4) Cod. Vatic. Gr. 1575, chartac. saec. XVI, manu eiusdem Ioannis Hydruntini scriptus; continet fol. 1—131 Apollonii Conic. I—IV, deinde post folium uacuum noua paginarum serie fol. 1—51 Eutocii commentarium.

5) Cod. Cnopolitanus, u. I p. V; continet fol. 1—55^r Theonis comment. in Ptolemaeum, fol. 55^v—180 Pappi comment. in Ptolem. libb. V—VI, fol. 181—258 Procli hypotyposes, fol. 259—281 Ioannis Alexandrini de astrolabio, fol. 283—347 Gemini introductionem, fol. 349—516 Apollonii Conic. I—IV, fol. 517—549

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PROLEGOMENA.

Sereni de sectione cylindri, fol. 549—588 Sereni de sectione conii in fine mutilum (des. in *πασών* p. 76, 15 ed. Halley).

6) Cod. Marcianus Uenet. 518, membran. saec. XV; continet Aeliani hist. animal., Eunapii uitas sophist., deinde fol. 101—149 Apollonii Conic. I—IV, fol. 150—160 Sereni de sectione cylindri, fol. 160—173 Sereni de sectione conii.

7) Cod. Ambrosianus A 101 sup., bombyc. saec. XIV?; continet fol. 1—4 Elem. lib. XIV, fol. 4—5 Elem. lib. XV, fol. 6—7 Marini introduct. in Data, fol. 7—25 Data, fol. 25^u fragmentum apud Hultschium Hero p. 249, 18—252, 22; fol. 26—34 Euclidis optic. recensionem uulgatam, fol. 34^u Damiani optica, fol. 35^u—39 Euclidis catoptrica, fol. 40—86 Apollonii Conic. I—IV, fol. 86—109 Sereni opuscula (fol. 110 uacat), fol. 111—138 Theodosii sphaerica, fol. 138—142 Autolyei de sphaera mota cum scholiis, fol. 142^u—154 Euclidis Phaenomena, fol. 154—158 Theodosii de habitab., fol. 158—174 Theodosii de diebus, fol. 174—179 Aristarchi de distantiiis, fol. 180—188 Autolyei de ortu, fol. 188—189 Hypsielii anaphor., fol. 190—226 Theonis ad *προχειρούς καν.* Ptolemaei.

8) Cod. Mutinensis II D 4, chartac. saec. XV; continet Eutocii commentarium, Apollonii Conic. I—IV, Georgii Gemisti de iis quibus Aristoteles a Platone differt.

In primo folio legitur: *Γεωργίου τοῦ Βάλλα ἐστὶ τὸ βιβλίον* et postea additum *Τοῦ λαμπροτάτου κρᾶντορος Ἀλβέρτου Πλου τοῦ βιβλίον.* Parisiis fuit a. 1796—1815.

9) Cod. Taurinensis B I 14, olim C III 25, chartac. saec. XVI; continet fol. 1—106 Apollonii Conic. I—IV, deinde Sereni opuscula et Chemicorum collectionem.

10) Cod. Scorialensis X—I—7, chartac. saec. XVI; continet Apollonii Conic. I—IV, Sereni opuscula, Theodosii sphaerica.

11) Cod. Parisinus Gr. 2342; u. I p. V*); continet Euclidis Elementa (ab initio mutila), Data cum Marino, Optica, Damiani Optica, Euclidis Catoptrica (des. fol. 118^r, ubi legitur in mg. inf. *μετὰ τὰ κατοπτρικά ἐν ἄλλοις βιβλίοις τὰ κανικά τοῦ Ἀπολλωνίου καὶ Σερίνου κανικά καὶ κυλινδρικά*), Theodosii sphaerica, Autolyei de sphaera mota, Euclidis Phaenomena, Theodosii de habitationibus, de diebus, Aristarchi de distantiiis, Autolyei de ortu, Hypsielii Anaphor., deinde fol. 155^u—187

*) Errore ibi hunc codicem saeculo XIII tribui; est sine ullo dubio saeculi XIV.

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Apollonii Conic. I—IV cum commentario Eutocii in mg. adscripto, fol. 187—200 Sereni de sectione conii, de sectione cylindri (in fine mutilum). fuit Mazarinaeus.

12) Cod. Paris. Gr. 2354, chartac. saec. XVI; continet fol. 1—125 Apollonii Conic. I—IV, deinde Syriani comment. in *Metaphysica* Aristotelis et de providentia. fuit Memmianus.

13) Cod. Paris. Gr. 2355, chartac. saec. XVI; continet Apollonii Conic. I—IV. fuit Colbertinus. fol. 43^r legitur: *εἰκᾶδι ἐλαφροβλιῶνος ἔγραφε Ναγκήλιος ἐν τοῖς Παρισίοις ἔτει τῷ αὐτῷ*. fol. 71—73^r alia manu scripta sunt.

14) Cod. Paris. Gr. 2356, chartac. saec. XVI; continet Apollonii Conic. I—IV. fuit Thuanaeus, deinde Colbertinus.

15) Cod. Paris. Gr. 2357, chartac. saec. XVI; continet fol. 1—87 Apollonii Conic. I—IV, fol. 88—121 Eutocii commentar., fol. 122—170 Sereni opuscula. fuit Mediceus. scriptus manu Ioannis Hydruntini.

16) Cod. Paris. suppl. Gr. 451, chartac. saec. XV; continet fol. 3—45 Theodosii sphaerica, fol. 46—52 Autolycci de sphaera mota (fol. 53 uacat), fol. 54—209 Apollonii Conic. I—IV (fol. 210—213^r uacant), fol. 214—246 Eutocii commentar. fol. 1 legitur: Mauritii Brescii ex dono illustris viri Philippi Ptolemaei equitis S. Stephani Senensis. Senis 1. Decemb. 1589.

17) Cod. Uindobonensis suppl. Gr. 9 (63 Kollar), chartac. saec. XVII; continet Apollonii Conic. I—IV, Sereni de sectione cylindri, de sectione conii, Euclidis *Catoptrica*, problema de duabus mediis proportionalibus, Euclidis *Optica*, *Data*, Aristarchi de distantiiis, *Hypsielis Anaphor.* fuit I. Bullialdi.

18) Cod. Monacensis Gr. 76, chartac. saec. XVI; continet fol. 1—93 Asclepii comment. in Nicomachum, fol. 94—220 Philoponi comment. in Nicomachum, fol. 220—276 Nicomachi *Arithmetic.*, deinde alia manu fol. 277—293 Apollonii Conic. I—IV, fol. 394—418 Sereni de sectione cylindri, fol. 419—453 de sectione conii.

19) Cod. Monac. Gr. 576, chartac. saec. XVI—XVII; continet fol. 1—83 Apollonii Conic. I—IV, fol. 84—100 Sereni de sectione cylindri, fol. 100—124 de sectione conii. „ex bibliotheca civitatis Schweinfurt“.

20) Cod. Norimbergensis cent. V app. 6, membranac. saec. XV; continet fol. 1—108 Apollonii Conic. I—IV, fol. 109—128 Sereni de sectione cylindri, fol. 128—156 de sectione conii. fuit Ioannis Regiomontani.

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21) Cod. Guelferbytanus Gudianus Gr. 12, chartac. saec. XVI; continet Apollonii Conic. I—IV. fuit Matthaei Macigni.

22) Cod. Berolinensis Meermannianus Gr. 1545, chartac. saec. XVII; continet fol. 1—118^r Apollonii Conic. I—IV (fol. 118^v—120 uacant), fol. 121—144 Sereni de sectione cylindri, fol. 145—178 de sectione coni.

23) Cod. Bodleianus Canonicianus Gr. 106, chartac. saec. XV; continet Apollonii Conic. I—IV.

24) Cod. Upsalensis 48, chartac. saec. XVI; continet Sereni opuscula, Apollonii Conic. I—IV (omissis demonstrationibus). fuit Cunradi Dasypodii.

25) Cod. Upsalensis 50, chartac. saec. XVI; continet Marini introductionem ad Data, Apollonii Conic. I—IV, Sereni de sectione coni, de sectione cylindri. scriptus manu Sebastiani Miegii amici Dasypodii.

Cod. Paris. Gr. 2471, chartac. saec. XVI, Mazarinaeus, qui in catalogo impresso bibliothecae Parisiensis commemoratur, nunc non exstat.*) codicem Paris. supplem. Gr. 869 chartac. saec. XVIII, qui a fol. 114 „notas in Apollonium Pergaeum“ continet, non uidi. cod. Barberin. II, 58 chartac. saec. XVI in fol. 64—68 continet Conic. III, 1—6 et partem propositionis 7. de cod. Magliabecchiano XI, 7 (chartac. saec. XVI) nihil notaui; continet Conic. I—IV. cod. Magliabecch. XI, 26 saec. XVI praeter Philoponum in Nicomachum figuras aliquot continet e codd. Graecis Eutocii et Apollonii excerptas. cod. Ambrosianus A 230 inf. interpretationem Latinam Apollonii et Eutocii continet, de quo in pag. 1 haec leguntur: Conica Apollonii studio Federici Commandini latinitate donata et commentariis aucta ipsamet quae typis mandata sunt multis in locis in margine manu ipsius Commandini notata Illustrissimo Federico Cardinali amplissimo Borromaeo grati animi ergo in suam Ambrosianam bibliothecam reponenda, quo etiam carissimum affinem perennet, Mutius Oddus Urbinas consecrat. denique cod. Upsal. 56 interpretationem latinam continet Conicorum „Londini Gothorum a Nicolao Schenmark a die XXIX Iulii ad diem XIII Sept. 1762 spatio XL dierum“ ad editionem Halleii factam (habet praeter Conic. I—VII etiam octaui restitutionem Halleianam).

*) Quo peruenerit codex a Constantino Palaeocappa Parisiis descriptus (Omont, Catalogue des mss. gr. copiés par Palaeocappa, Paris 1886, p. 6), nescio.

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codicum illorum XXV contuli totos codd. 1, 5, 11, ceteros ipse inspexi praeter codd. 6, 9, 21, de quibus quae cognoui benevolentiae uirorum doctorum debeo, qui bibliothecis Marcianae, Taurinensi, Guelferbytanæ praepositi sunt. iam de cognatione horum codicum uideamus.

primum cod. 2 a V pendere, certissimo documento adparet ^{Uat. 203} ex figura II, 32 p. 248; ibi enim in hyperbola AB in cod. 2 ante A adpositum est N, quod hic nullum habet locum; neque enim omnino eo loco figurae littera opus est, neque, si maxime opus esset, N esse debuit, sed M. origo huius erroris statim e V manifesta est; ibi enim figura illa ita in mg. descripta est, ut in uerba Apollonii transeat et terminus superior hyperbolae AB ante litteram ν in $\tau\omega\nu$ p. 248, 10 fortuito cadat; unde littera N in figuram irrepsit. quamquam iam hoc sufficit ad demonstrandum, quod uolumus, alia quoque documenta adferam. nam I p. 8, 5 pro $\pi\rho\acute{\omicron}\varsigma$ hab. $\pi\rho\acute{\omicron}\varsigma \eta$ cod. 2 (η postea deletum), quod e fortuita illa lineola codicis V, de qua u. adn. crit., ortum est. I p. 376, 6: $A\Xi Z$] corr. ex $A\Xi\Theta$, ita ut Θ non prorsus deleta sit, V; $A\Xi\Theta Z$ cod. 2. I p. 390, 6: $H\Xi$] corr. ex $H\Gamma$ littera ξ ad Γ adiuncta V, $H\Gamma\Xi$ cod. 2. et omnino etiam apertissimi errores codicis V fere omnes in cod. 2 reperiuntur, uelut dittographia I p. 214, 5. aliquid tamen ad recensionem utile inde peti posse, explicaui I p. V.

cum in cod. 3 eadem prorsus ratio sit figurae II, 32 atque ^{Uat. 205} in cod. 2, is quoque a V pendet; et eum ex ipso V, non e cod. 2, descriptum esse, hi maxime loci ostendunt:

notam I p. 267 adn. e V adlatam etiam cod. 3 habet, in cod. 2 contra omissa est et figurae suo loco repositae.

I p. 448, 17: ΘA] $A\delta$ V, Δ seq. lac. 1 litt. cod. 2, $A\Delta$ cod. 3. itaque librarium cod. 3 ratio figurae in V in eundem errore induxit. ceterum Ioannes Hydruntinus, qui et hunc cod. et cod. 4 et 15 scripsit, ab a. 1535 ad a. 1550 munus „instauratoris“ librorum Graecorum apud papam obtinuit, ut adparet ex iis, quae de salario ei numerato collegit Müntz La Bibliothèque du Vatican au XVI^e siècle p. 101–104. itaque cum cod. V pessime habitus sit (I p. IV), ne usu periret, eum pro suo munere descripsisse putandus est. et hoc est „apographum“ illud, quod in notis in V mg. manu recenti adscriptis citatur, uelut I p. 2, 15 $\delta\iota\acute{\alpha}$ $\tau\acute{o}$ $\pi\rho\acute{\omicron}\varsigma$ $\epsilon\upsilon\pi\lambda\omega$ $\kappa\iota\lambda.$ $\xi\zeta$ $\acute{\alpha}\pi\omicron\gamma\rho\acute{\alpha}\phi\omicron\nu$ $\epsilon\acute{\iota}\kappa\omicron\nu\iota\kappa\omicron\upsilon$ (h. e. adcurati, fidelis); nam ita cod. 3 ($\xi\kappa\iota\pi\lambda\omega$ rectius cod. 2); cfr. praeterea in Sereno (ed. Halley):

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p. 14, 34: ZM] ΘM V, M euan.; „ η “ ΘN in apographo“
mg. m. rec.; ΘM cod. 2, ΘN cod. 3;

p. 64, 40: η ZE τῆς E Θ] V, cod. 2; „ η “ EZ τῆς E Θ sic
in apographo“ mg. m. rec. V, η EZ τῆς E Θ cod. 3;

p. 71, 6: $\delta\tau\iota$ $\tau\iota$ V, „ $\xi\tau\iota$ in apographo. puto igitur $\delta\tau\iota$ \tilde{M} “
mg. m. rec.; $\delta\tau\iota$ cod. 2 (o in ras. m. 1), $\xi\tau\iota$ cod. 3;

p. 83, 9: δ προέκειτο] cod. 2; $\kappa\epsilon\iota\tau\omicron$ post lacunam V, „puto
deesse δ προ“ mg. m. rec.; $\pi\rho\acute{o}\epsilon\kappa\epsilon\iota\tau\omicron$ post lacunam cod. 3.
adparet, correctorem ita scripturam non fuisse, si cod. 2 in-
spexisset; nam per uocabulum „puto“ suam significat coniectur-
ram, uelut p. 75, 48: δ κέντροφ] ϕ κέντροφ V, mg. m. rec.

„ \tilde{M} $\tilde{\tau}$ puto δ κέντροφ sic infra [h. e. p. 76, 3] in repetitione“.

his notis, quas manus recens partim Graece partim Latine

in mg. codicis V adscripsit, saepius, ut uidimus, praemittitur \tilde{M} ,
h. e. monogramma Matthaei Deuarii (u. Nohac La bibliothèque
de F. Orsini p. 161), qui ab a. 1541 in bibliotheca Uaticana
„emendator librorum Graecorum“ fuit (u. Müntz l. c. p. 99).
ei igitur tribuendum, quicquid manu recenti in V adscriptum est.

Uat. 1575 etiam cod. 4 ex ipso V descriptus est; nam et littera N
in figura II, 32 addita a V pendere arguitur, et eum neque e
cod. 2 neque e cod. 3 descriptum esse ostendunt scripturae
I p. 376, 6: $A\Xi Z$] $A\Xi\Theta Z$ cod. 4, $A\Xi Z$ cod. 3 et corr. ex
 $A\Xi\Theta$ V; $A\Xi\Theta Z$ cod. 2; I p. 310, 13: KZ] corr. ex KH V,
 KHZ cod. 2, KZ cod. 4. nec aliter expectandum erat, quippe
qui a Ioanne Hydruntino scriptus sit sicut cod. 3. ceterum
cod. 4 cum bibliotheca Columnensi in Uaticanam peruenit.

Paris. 2357 cod. 15 ab eodem Ioanne Hydruntino scriptus et ipse e V
descriptus est. nam quamquam hic N in figura II, 32 omis-
sum est, tamen in erroribus omnibus cum V ita conspirat, ut
de eorum necessitudine dubitari nequeat; et hoc per se ueri
simile erat propter Ioannem Hydruntinum librarium. eum a
codd. 2, 3, 4 originem non ducere ostendit uel ipsa omissio
litterae N, confirmant alia, uelut quod titulus libelli $\pi\epsilon\rho\iota$ $\kappa\upsilon$ -
 $\lambda\iota\nu\delta\rho\nu$ $\tau\omicron\mu\eta\varsigma$ hic est: $\Sigma\epsilon\rho\eta\nu\omicron\nu$ $\pi\epsilon\rho\iota$ $\kappa\upsilon\lambda\iota\nu\delta\rho\nu$ $\tau\omicron\mu\eta\varsigma$; ita
enim V, cod. 3 uero: $\Sigma\epsilon\rho\eta\nu\omicron\nu$ $\Lambda\nu\nu\iota\sigma\epsilon\omega\varsigma$ $\phi\iota\lambda\omicron\sigma\phi\omicron\nu$ $\pi\epsilon\rho\iota$ $\kappa\upsilon$ -
 $\lambda\iota\nu\delta\rho\nu$ $\tau\omicron\mu\eta\varsigma$, e subscriptione codicis V petita; cod. 4 Serenum
non habet. nec a cod. 2 pendet; nam I p. 4, 27 recte $\kappa\rho\iota\nu\epsilon\nu$
habet, non $\kappa\rho\acute{o}\pi\tau\epsilon\nu$ ut cod. 2.

hic codex quoniam Mediceus est, a. 1550 a Petro Strozzi

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in Galliam cum ceteris codd. Nicolai Ridolfi Cardinalis adlatus est. ibi statim ex eo descriptus est cod. 14. is enim Paris. 2956 fol. 135^r (ad finem Conicorum) et fol. 137 haec habet: „perlectum Aureliae 15 Martii 1551“, scripta*) manu Petri Montauraei mathematici Aurelianensis (u. Cuissard L'étude du Grec à Orléans p. 111), qui sine dubio eo ipso anno codicem suum in usum describi iussit et descriptum perlegit emendavitque, ut solebat. cod. 14 e cod. 15 descriptum esse ex his locis colligo: I p. 6, 15: $\tau\epsilon$] om. codd. 14, 15 soli (praeter cod. 13, de quo mox dicam), I p. 218, 5: $\tau\acute{o}\upsilon\tau\omicron\nu$] $\tau\acute{o}\upsilon\tau\omicron\nu$ cod. 14 (et 13), quia $\tau\omicron\nu$ cod. 15 (ita etiam praeter V codd. 2, 3, 4, sed inde cod. 14 descriptus esse non potest, quoniam in fig. II, 32 N non habet).

Montauraeus plurimis locis in mg. et emendationes et adnotationes suas addidit, quarum speciminis causa nonnullas adferam:

1) ad I def. 6 mg. $\pi\epsilon\rho\iota$ τῶν ἀντικειμένων ἐν τῷ 15' τοῦ α' $\pi\epsilon\rho\iota$ τῆς ἑλλείψεως ἐν τῷ με' τοῦ β' πρὸς τῷ τέλει.

2) I, 5 p. 20, 1 mg. $\lambda\acute{\epsilon}\iota\pi\epsilon\iota$. ἐστὶ τῷ ὑπὸ τῶν KZH. ἀλλὰ τὸ ὑπὸ τῶν EZΔ τουτέστι τὸ ὑπὸ τῶν ΔZ, ZE ἴσον. deinde deleta: ἢ γὰρ ὑπὸ HΘK κτλ.

3) I, 22 p. 76, 8 post Γ, Δ inseruit mg. $\mu\grave{\eta}$ συμπίπτουσα τῇ διαμέτρῳ ἐντός.

4) I, 33 p. 98, 25 post καταχθῆ mg. εὐθεία.

5) I, 39 p. 120, 9 post καὶ mg. ἐν τοῦ δὲ ἔχει.

6) I, 41 p. 128, 9 post ΔH mg. τὸ ἄρα ἀπὸ ΔE εἶδος τὸ ὅμοιον τῷ AZ.

7) I, 45 p. 138, 2 post ΓΔ mg. ἐπὶ τὴν δευτέραν διάμετρον.

8) I, 45 p. 136, 17: ὑπ' αὐτῶν δι' οὗ ἀποτεμνεὶ τρίγωνον ἢ κατηγμένη πρὸς τῷ κέντρῳ ἐπὶ μὲν τῆς ὑπερβολῆς μείζον cod. 14, Montauraeus deletis δι' et ἐπὶ μὲν τῆς ὑπερβολῆς post αὐτῶν mg. inseruit τρίγωνον ἐπὶ μὲν τῆς ὑπερβολῆς.

9) I, 54 p. 168, 29 mg. addit τέμνηται ἄρα ἐπιπέδῳ ὀρθῷ πρὸς τὸ ZHΘ τρίγωνον καὶ ποιεῖ τομὴν τὸν HΠΘP κύκλον; p. 170, 3 post ὑποκειμένῳ mg. add. τέμνοντι τὴν βᾶσιν τοῦ κώνου.

10) I, 55 p. 172, 22 mg. $\lambda\acute{\epsilon}\iota\pi\epsilon\iota$. καὶ δυνήσονται τὰ παρα τὴν ΔN παρακείμενα ὀρθογώνια.

11) I, 56 p. 180, 5—6: BE πρὸς EZ ἢ BK πρὸς KΘ cod. 14,

*) Teste Henrico Omont, uiro harum rerum peritissimo.

XVIII

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mg. m. 1: *καὶ τοῦ τῆς ΑΕ πρὸς ΕΖ ἀλλ' ὡς μὲν ἡ ΒΕ πρὸς ΕΖ, Montaurus deletis ἡ ΒΚ πρὸς ΚΘ mg. add. ἡ ΒΚ πρὸς ΚΘ τουτέστιν ἡ ΖΑ πρὸς ΑΘ.*

12) Ad II, 13 mg. „*παράδοξον* Proclus in fine li. 2 commentariorum in 1. Euclidis“

13) II, 16 p. 220, 20—22: *τὸ μὲν ὑπὸ ΚΑΘ τῶ ὑπὸ (ἀπὸ m. 2) ΘΜΗ ἔστιν ἴσον καὶ ἡ ΑΘ τῆ ΚΜ cod. 14, mg. m. 2: λείπει ΑΓ τὸ δὲ ὑπὸ ΘΜΗ τῶ ἀπὸ ΓΒ ὅστε τὸ ὑπὸ τῶν ΚΑΘ ἴσον ἔσται τῶ ὑπὸ τῶν ΘΜΚ καὶ ἡ ΑΘ τῆ ΚΜ ἴση deletis uerbis ΘΜΗ ἔστιν ἴσον.*

Paris. 2355 Hae correctiones notaeque Montauri omnes fere in cod. 13 receptae sunt, unde adparet, eum e cod. 14 descriptum esse. et concordant temporum rationes. nam cod. 13 Petri Rami fuit — nomen eius in prima pagina legitur —, qui ipse Petrum Montaurum magistrum suum in mathematicis praedicat et inter mathematicos Graecos, ad quorum studium se adcingebat, Apollonium nominat (Waddington Ramus p. 108). de eo Nancelius, scriptor librarius codicis 13, in epistula I, 61 (p. 211 ed. Paris. 1603) ad Scaligerum haec narrat: „ipsi illi multa Graeca exemplaria mea manu perdis ac pernox exscripsi, quorum ille sibi copiam Roma e Vaticano et ex bibliotheca regia et Medicaea per reginam regum nostrorum matrem fieri sedulo satagebat et per alios utique viros φιλομαθεῖς“. in mg. a Nancelio saepius „exemplar reginae“ citatur, uelut I p. 6, 27 τῆς γραμμῆς] τῆς καμπύλης γραμμῆς cod. 13, mg. hoc uocabulum non est in exemplari reginae, p. 8, 13 post ἐτέρῳ supra scr. m. 1 διαμέτρω cod. 13, mg. hoc uocabulum in exemplari reginae non reperitur, p. 8, 23 κορυφῆς del. m. 1 cod. 13, mg. hoc uerbum est in exemplari reginae. sine dubio „exemplar reginae“ est ipse cod. 15; nam codices Petri Strozzi ad Catharinam de Medicis reginam post mortem eius peruenerunt. ex eodem codice illas quoque scripturas petiuit Nancelius, quas addito uocabulo „alias“ in mg. adfert, uelut I p. 10, 1 καὶ ἔστω] om. cod. 13, mg. alias adduntur καὶ ἔστω, p. 220, 21 ὅστε τὸ ὑπὸ ΚΑΘ ἴσον ἔσται τῶ ὑπὸ τῶν ΘΜΚ καὶ ἡ ΑΘ τῆ ΚΜ ἴση ΘΜΚ ἔστιν ἴσον καὶ ἡ ΑΘ τῆ ΚΜ cod. 13 cum Montauri (u. supra), quem non intellexit; mg. alias ita legitur ὅστε καὶ τὸ ὑπὸ ΚΑΘ τῶ ὑπὸ ΘΜΚ ἔστιν ἴσον καὶ ἡ ΑΘ τῆ ΚΜ.

Marc. 518 Ex ipso V praeterea descriptus est cod. 6; nam in fig. II, 32 habet *N* et in praefatione libri primi lacunas tres habet (p. 2, 15

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XIX

ἐκ — om., οὐ διακα — om., p. 2, 16 ὡς ἔσχατον om.) propter litteras in V detritas, quae in antiquioribus apographis eius seruatae sunt. in cod. 6 propter litteras paululum deformatas in V pro κρίνειν p. 4, 27 scriptum est κρίπτειν. eundem errorem habent codd. 17, 18, 22, qui ea re a cod. 6 pendere arguuntur. praeterea cod. 22 et p. 2, 15—16 easdem lacunas Berol. 1545 habet et uerba p. 8, 12 ὦν — 13 ἐτέρῳ cum cod. 6 solo bis scripsit. et cum sit Meermannianus, per complurium manus e bibliotheca profectus est Guillelmi Pellicier, qui omnes fere codices suos Venetiis describendos curauerat. etiam cod. 17 ^{Uindob.} easdem lacunas illas habet, sed expletas a manu recenti, quae eadem κρίπτειν in κρίνειν correxit et alias coniecturas adscripsit, uelut p. 4, 10 παράδοξα] mg. παντοῖα, p. 4, 12 καὶ κάλλιστα] mg. καλὰ καί, p. 4, 21 συμβάλλουσι] mut. in συμβάλλει, mg. καὶ ἀντικειμέναις ἀντικειμέναις κατὰ πόσα σημεῖα συμβάλλουσι; sine dubio ipsius Bullialdi est. hunc codicem Venetiis scriptum esse, docet, quod problema illud de duabus mediis proportionalibus e Marc. 301 sumpsit. Sereni libellus de sectione conii falso inscribitur Σερῖνον Ἀντιστάς φιλοσόφου περὶ κώνου τομῆς β', quia in cod. 6, ubi inscriptio est περὶ κυλίνδρου τομῆς β', supra κυλίνδρου scriptum est κώνου numero β' recte deleto, quod non animaduertit librarius codicis 17. cod. 18 lacunas habet postea expletas; uersus Monac. 76 finem libelli de sectione cylindri habet: „ἐνταῦθα δοκεῖ ἐκλείπειν καὶ μὴ ἀκολουθεῖν τὸ ἐπόμενον. sic videtur aliquid deesse“, quae uerba hic in cod. 6 adscripsit Bessarion (ἐκλείπειν pro ἐκλείπειν, hic videtur aliquid deficere; Latina etiam cod. 22 hoc loco habet prorsus ut Bessarion); in fine libelli de sectione conii addidit in cod. 6 Bessarion: οὐχ εὔρηται πλέον; eadem eodem loco habent codd. 18 et 22.

praeterea e cod. 6 descriptus est cod. 10; nam et lacunas ^{Scorial.} p. 2, 15—16 habet et post Serenum notas Bessarionis (ἐνταῦθα ^{X—1—7} δοκεῖ ἄλλοι καὶ μὴ ἀκολουθεῖν τὸ ἐπόμενον, οὐχ εὔρηται πλέον). et Diegi de Mendoza fuit (Graux Fonds Grec d'Escorial p. 268), quem constat bibliothecam suam apographis Marcianis impleuisse.

pergamus in propagine codicis V enumeranda. cod. 16, ^{Paris. suppl.} cum p. 2, 15 πρὸς ἐκπλῶ et οὐ διακα-, p. 2, 17 ἔσχατον ἐπε- ^{gr. 451} postea in spatio uacuo inserta habeat, necesse est e V, in quo litterae illae euanuerunt, originem ducere siue ipso siue per apographum. de cod. 6 intermedio cogitari non potest, quia
b*

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XX

PROLEGOMENA.

in eo priore loco non *πρὸς ἔκπλω*, sed *ἔκ-* tantum omissum est, tertio non *ἔσχατον ἔπε-*, sed *ὡς ἔσχατον*. p. 2, 15 post lacunam alteram in cod. 16 legitur *θάρανες* (corr. m. 2) et p. 4, 25 post *δέ* additur *περὶ*. iam cum eadem scripturae in cod. 20 inueniantur, inter V et codd. 16, 20 unum saltim apographum intercedit; neque enim alter ex altero descriptus esse potest, quia cod. 20 p. 2, 15 *ἔκ-* solum omittit et p. 2, 17 pro *ἔσχατον ἐπελευσόμενοι* habet *ἔδια τὸν ἐτελευσόμενοι*; praeterea in cod. 16 opuscula Sereni inscriptione carent, in cod. 20 uero inscribuntur *σερήνη περὶ κυλίνδρον τομῆς* et *σερήνου ἀντισσέως φιλοσόφου περὶ κυλίνδρον τομῆς*. hinc simul adparet, Norimb. cent. V app. 6 cod. 20 e cod. 6 descriptum non esse, quod exspectaueris, quia Regiomontani fuit; ibi enim libelli illi inscribuntur *σερήνου ἀντισσέως φιλοσόφου περὶ κυλίνδρον τομῆς ᾱον* et *σερήνου ἀντισσέως φιλοσόφου περὶ κυλίνδρον (κάνον Bessarion) τομῆς β̄ον* (del. Bessarion); in V prior libellus inscribitur *σερήνου περὶ κυλίνδρον τομῆς*, alter inscriptionem non habet, sed in fine prioris legitur *σερήνου ἀντισσέως φιλοσόφου περὶ κυλίνδρον τομῆς*; —, quam subscriptionem in titulum alterius operis mutauit manus recens addito in fine *τὸ β̄* et ante eam inserto *τέλος τοῦ ᾱ*. cum cod. 20 arta necessitudine coniunctum esse Taur. B I 14 cod. 9, inde adparet, quod p. 2, 17 *ἔδια τὸν ἐτελευσόμενοι* praebet (p. 2, 15 *ἔκ-* et *οὐ διακα-* in lacuna om.), sed cum p. 4, 25 *περὶ* non habeat, neuter ex altero descriptus est; praeterea p. 4, 13 pro *συνείδομεν* cod. 9 *συνοί* habet.

nihil igitur relinquitur, nisi ut putemus, codd. 9, 16, 20 ex eodem apographo codicis V descriptos esse, in quo a principio omisa essent p. 2, 15 *πρὸς ἔκπλω* et *οὐ διακα-*, p. 2, 17 *ἔσχατον ἔπε-* et p. 4, 25 in mg. adscriptum *περὶ*, postea p. 2, 15 *πρὸς πλω* et p. 2, 17 errore legendi *ἔδια τὸν ἐτε-* suppleta, fortasse ex ipso V.

Monac. 576 apographa codicis 20 sunt codd. 19 et 24, ut hae scripturae ostendunt: p. 2, 4 *ἔχοι*] *ἔχει* 19, 20, 24; p. 2, 8 *εὐαρεστήσωμεν*] *εὐαρεστήσομεν* 19, 20, 24; p. 2, 15 *οὐ διακαθάραντες*] *θάρανες* 19, 20, 24; p. 2, 17 *ἔσχατον ἐπελευσόμενοι*] *ἔδια* (ᾱ ita scriptum, ut litterae ω simile fiat) *τὸν ἐτελευσόμενοι* 20, *ἔδια τὸν ἐτελευσόμενοι* 19, 24; p. 4, 6 *ἄξονας*] *ἄξωνας* 19, 20, 24; p. 4, 25 *δέ*] *δὲ περὶ* 19, 20, 24. neutrum enim ex altero descriptum esse, hi loci demonstrant: p. 4, 5 *τάς*] *τοὺς* compendio 19, 20, *τάς* corr. ex *τοῦ* uel *τῶν* 24; p. 4, 9 *καλῶ*] 19, *καλῶ* seq. ras. 1 litt. 20, *καλῶς* 24; p. 4, 11 *τε*] 19, 20,

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XXI

δέ 24; p. 4, 13 *συνείδομεν*] 24, *συνείδαμεν* 19, 20; p. 4, 16 *ἀνευ*] 24 et litteris ε, υ ligatis 20, *ἀνα* 19; p. 6, 7 *ᾠθευ*] 19, 20, *ᾠταν* 24; p. 6, 26 *εὐθεία*] 19, om. in extremo uersu 20, sed addidit mg. m. 1, *εὐθεία* mg. 24.

denique ex ipso V descriptus esse uidetur cod. Uindobon. suppl. gr. 36 (64 Kollar), chartac. saec. XV, qui priores tantum duos libros Conicorum continet (fuit comitis Hohendorf); neque enim in fig. II, 32 *N* litteram habet, et a V eum pendere ostendunt scripturae p. 2, 15 *εὐπλω*, p. 226, 6 *τό*] om. Uindob. et in extremo uersu V. lacunas p. 2 non habet, p. 2, 12 *ὄν δέ* pro *ὄν*. ceterum nihil de eo mihi innotuit.

restant eiusdem classis codd. 8, 12, 21, 23, quos omnes e codice 2 originem ducere ostendit error communis *κρύπτειν* p. 4, 27; ita enim propter litteras in V, ut dixi, deformatas Mutin. II pro *κρύπτειν* cod. 2 (corr. m. rec.). lacunas p. 2 non habent. ^{D 4} Paris. 2354 utrum omnes ex ipso cod. 2 descripti sint an alius ex alio, Gud. gr. 12 Canon. 106 pro certo adfirmare non possum; cfr. p. 2, 4 *ἔχοι*] 2, 8, 12, 23, *ἔχει* 21; p. 2, 12 *ὄν*] *ὄν δέ* 2, 8, 12, 21, 23; *ἔσχόλαξε*] 2, 8, 12, *ἔσχόλαξεν* 21, 23; p. 2, 19 *συμμεμιχότων*] 2, 8, 12, 21, *συμμεμιλότων* 23; p. 2, 20 *καὶ τό*] 2, 8, 12, 21, *καὶ* 23; p. 4, 1 *πέπτωκεν*] 8, 12, 23, *πέπτωκε* 2, 21; p. 4, 4 *καί*] 2, 12, om. 8, 21, 23; *ἔξειργασμένα*] 2, 8, 12, 21, *ἔξηργασμένα* 23; p. 4, 9 *εἰδήσεις*] 2, 8, 12, 23, *εἰδήσις* 21; p. 4, 17 *σύνθεσιν*] 2, 8, 12, 23, *θέσιν* 21; p. 4, 21 *κατά*] 2, 8, 12, om. 21, 23; p. 6, 14 *τοῦ*] 2, 8, 23, *τοῦ κέντρον τοῦ* 12; p. 8, 10 *ἐκástην*] *ἐκástη* in extremo uersu 2, *ἐκástη* 8, 12, 23; p. 8, 18 *συζυγεῖς*] 2, 8, 23, *συζυγεῖς δέ* 12; p. 8, 19 *διάμετροι*] 2, 12, 23, *διάμετροι* 8; p. 8, 21 *α'*] om. 8, *ᾠον* 23, *θεώρημα ᾠον* 12; p. 10, 9 *ἔστι*] 2, 8, 23, *ἔστιν* 12. itaque codd. 8, 12, 23 apographa ipsius cod. 2 uideri possunt, cod. 21 autem fortasse ex cod. 23 pendet. cod. 21 quoniam Matthaei Macigni fuit, sine dubio idem est, quem Tomasinus Bibliotheca Patauina manuscriptorum p. 115 inter codices Nicolai Trivisani enumerat, cui Macignus mathematicus Uenetus bibliothecam suam legauerat (u. Tomasinus p. 115²).

codd. denique 7 et 25 e cod. 11 descriptos esse, uel Ambros. A inde adparet, quod hi soli libellum Sereni de sectione conii ante alterum eius opus collocant. cfr. praeterea p. 2, 8 *εὐαρεστήσωμεν*] 11 supra scripto *εὐρω*, *εὐρωσστήσωμεν* 7, ^{εὐρωσ}*εὐαρεστήσωμεν* 25; p. 2, 12 *παραγενηθεῖς*] *παραγενημένος* 7, 11, 25; p. 2, 15 *ἔκπλω*] *ἔκπλων* 7, 11, 25.

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XXII

PROLEGOMENA.

iam de codicibus, qui soli relictis sunt, 5 et 11 uideamus. Cnopol. c prius e cod. 5 (c) omnes scripturas adferam, quae a V discrepant, melioribus stellula adposita (scholia marginalia non habet):

- I p. 2, 15 ἔκπλουν*(?) 19 συμμετεχόντων
 p. 4, 1 πεπτακεν* 6 καί — 7 ἀσυμπτάτους] om. 13
 συνειδόμεν corr. ex συνειδάμεν 14 Εὐκλείδους e corr. 16
 ἄνευ] τὸν ἄνευ 19 καί — 21 συμβάλλουσι] om.
 p. 6, 1 πρώτοι] $\bar{\alpha}$ 2 Ἐάν] ἄν
 p. 8, 5 πρός 6 ὀρθίαν] θείαν post lac. 21 α'] hab.
 p. 10, 15 β'] om. 16 post κατά del. κο 20 A] πρώ-
 τον 24 A] πρώτον
 p. 12, 3 Z] corr. ex H 16 περιφέρειαν* 21 γ' om.
 p. 14, 4 BΓ] e corr. 13 ἔχον 22 ἔχον 25 συμβαλέτω
 p. 16, 4 συμβαλέτω 6 τέμνεται τοῦ] semel* 12 καί
 — 13 ἀλλήλαις] om. 24 ε'] δ' mg.
 p. 20, 2 τό] τῷ τὸ] τῷ 8 ε'] om. 14 συμβαλεῖ* τῷ]
 τῷ τοῦ
 p. 22, 15 post ἐπιφανεία del. συμπιπτεύω κατὰ τὸ H. λέγω,
 ὅτι ἴση ἐστὶν ἢ AZ τῆ ZH
 p. 22, 21 ἀπὸ τοῦ* 26 ζ'] om.
 p. 24, 11 οὐκ αἰεὶ] οὐ καὶ εἰ 28 AZE] corr. ex AE
 p. 26, 22 τό] om.
 p. 28, 3 τό] semel* 5 τρίγωνον] om. 11 HZ] ZH
 p. 30, 5 προσεμβαλεῖται 28 τῆς*
 p. 32, 6 τομῆς* 11 ἐκβάλλεται 15 ZΘ] ZH 20 ἀπο-
 λαμβάνουσα] om.
 p. 34, 1 τῆν βάσιν 15 ZH] HZ 17 δῆ] om. 19 post
 τό del. τῶν KM] supra scr. 20 BΓ] B 21 ὁ] hab.* 24
 τῷ] corr. ex τό
 p. 36, 2 ἡ ὑπό] corr. ex ὑπό 3 ἐστὶ] om. 7 σημεία ἠ]
 σημειῖ ἠ 11 BΓ] AΓ 12 τό — 13 τομῆν] om. 15 τὰ
 23 μῆ] hab.* νεύει (fort. scrib. οὐ νεύει)
 p. 38, 4 ἄν] om. 6 δυνηθήσεται 15 A] πρώτον 22
 τοῦ] e corr. 24 πεποιήσθω*
 p. 40, 1 παρόλληλον — 3 ἐπίπεδον] semel* 6 τῷ] corr.
 ex τό 7 ΘZ] ZΘ 14 NA 15 AM] MA ἠ] hab.* 21
 ZA] corr. ex AZ
 p. 42, 2 ἦν] ὄν 5 ἐάν] ἄν

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XXIII

- p. 44, 2 *τέμνονσαι*] sic* 14 *δέ]* corr. ex *τε* 15 *NOΞ]* *OΞ*
 p. 46, 3 *καί* — 4 *KB]* om. 8 *ZΔ]* *ΔZ* 12 *καί* — 13
ΣNP] om. 13 *ZΔ]* *ΔZ* 19 *τῶ]* *τό* *ΞNZ]* *ΞKZ* 27
 post *δρθία* del. *καί*
 p. 48, 2 *έάν]* *άν* 16 *εὐθείαις]* *γωνίαις*
 p. 50, 23 *τῶν]* om.
 p. 52, 4 *ὁ τοῦ* — 5 *ΠMP]* semel* 15 *εἶδει]* corr. ex
ἦδη 17 *ἦ δὲ EΘ]* om.
 p. 54, 2 *μή]* om. 26 *A* (alt.)] *H*
 p. 56, 8 *τέμνηται* — 12 *τριγώνου]* bis 9 *τοῦ κώνου]* om.
 priore loco 16 *καί* — 17 *ΕΠ]* semel* 29 *τό]* hab.*
 p. 58, 2 *τὸ ὑπό* — 4 *BΣΓ]* mg. m. 1 23 *ἐκβεβλήσθω*
 p. 60, 9 *N]* om. 21 *HΞ]* *NΞ]* 24 *ΓΘ]* *ΓΔ*
 p. 64, 7 *συζυγείσα* 12 *συζυγείσα* 25 *BZ*
 p. 66, 3 *NA* 5 *NAA* 10 *ἄρα]* *ἄρα καί* 13 *ΞΓΔ* 14
συζυγείσα 21 *ἀντικειμέναν*
 p. 70, 4 *ἐπεί* — 5 *EZ καί]* om. 10 *τῆ τομῆ]* om. 28
ἐντός
 p. 72, 4 *συμπεσεῖται]* corr. ex *συμπίπτει* 19 *τῶ* — 21
ΔZ] om. 24 *ἀπό]* om.
 p. 74, 7 *ἦ* (pr.)] corr. ex *ἦ** 10 *μέν]* hab.* 13 *οὕτως*
 p. 76, 8 *τά]* corr. ex *τήν*
 p. 78, 3 *διαμέτρων* — 4 *ΓΔ]* bis 4 ante *ἐκατέρω* del.
τῆ (priore loco) 6 *HE]* *E* e corr. 10 *έστι]* sic* 11 *τῆς]*
 bis 12 *μείζον]* om. 13 *ZΔ]* *ZA* 15 *ZΔ]* *A* e corr. 26
Z] e corr.
 p. 80, 16 *HK* (pr.)] *IΘK*
 p. 82, 4 *ἀνήχθω]* om. 7 post *τῆς* del. *ἀπό*
 p. 86, 2 *τουτέστι* — *ΔZ]* semel* 21 *EZ]* *EΞ]*
 p. 88, 1 *KA]* sic* 5 *τό]* e corr. 9 *BH]* *BN* 12
ἀπό (pr.)] *υπό* 21 *εὐθεία]* e corr.
 p. 90, 2 *BZ]* *B* 10 *τῶ]* *τό*
 p. 92, 6 *ὡς* — *HE]* om. 11 *ΑΓ]* sic* 21 *τομῆν]*
τομῆν ἦ
 p. 94, 2 *E]* in ras. *τεταγμένως]* seq. ras. 4 *τῆ]* bis
 18 *ἐπειδή* — 19 *πεσεῖται]* om. 23. *κώνου]* *τοῦ κώνου*
 p. 96, 17 *ὑπό]* corr. ex *ἀπό*
 p. 98, 7 *τῶ]* sic* 16 *ὡς* — 17 *ΘΑ]* om. 26 *πρός]* e corr.
 p. 100, 19 *ΑΔ]* *ΔE* 20 *τετράκις**
 p. 102, 2 *ἦ]* *ἦ* 23 post *ΞN* del. *έση ἄρα έστι* 25 *ἦ NΞ**

XXIV

PROLEGOMENA.

- p. 104, 9 ὑπό (alt.)] corr. ex ἀπό 11 ὑπό (pr.)] ἀπό 12 HΘ] ZΘ, Θ e corr. ὡς — 13 ZH] mg. m. 1
- p. 108, 22 συμπίπτει, -η e corr. τῆ] e corr. 27 τοῦ] sic*
- p. 110, 8 EΓ] ΓE 16 ZE] EZ^α 23 τό] τῶ
- p. 114, 13 καί — 15 HΓ] om. 17 AM] corr. ex HM 24 τό] corr. ex τῶ 25 ὡς — 26 MHA] om.
- p. 116, 1 πρὸς τό] τῶ ἴσον — 2 HA] om. 14 τῆς (alt.)] τοῦ 23 HZ] ZH 26 HΓ] HΣ 27 ΓZΔ] ΓZA ἡ ΔΓ — 28 ZΔ] om. 28 ΔΘ] ΘΔ
- p. 118, 21 ὄν (alt.)] ἦν
- p. 120, 24 ΘH] corr. ex Θ
- p. 122, 7 καὶ ἐκ — 8 πρὸς K] om. 15 ἐν] om. 21 τὴν λοιπὴν] sic*
- p. 124, 2 post εἶδει del. ἐπὶ δὲ τῆς ἐλλείψεως 14 ante καὶ del. τὸ ἀπὸ τῆς ΔΓ 23 ἔχει] om.
- p. 126, 8 AE] corr. ex EA
- p. 128, 3 AZ] sic*
- p. 130, 4 ΔZ] corr. ex ΔB 7 τό (pr.)] τὴν
- p. 132, 10 τῶ] sic 20 BΓΔ] corr. ex BΔΓA
- p. 134, 14 ZO] ZH 16 N (alt.)] H
- p. 136, 10 τῆ δευτέρῳ] semel*
- p. 138, 1 B] e corr. 3 HΘZ] HΘ
- p. 140, 7 BZE] E e corr. 8 ΓΔΔ] ΓΔ 11 ἀφῆς] τομῆς
- p. 144, 19 EΔ] Δ e corr.
- p. 146, 5 τό] om. 20 τό] om.
- p. 148, 2 KΠM] KΠB 6 τοῦ] τῆ 12 ΓΔΔ] corr. ex ΔΔ 13 KAN] KAM 14 ἴσον — KAN] del. m. 1 15 τῶ — ΓΔΔ] om.
- p. 150, 6 ἀφῆς] corr. ex τομῆς m. 1 21 ZE] HΞE EH] H 28 ΓK] corr. ex KΓ
- p. 152, 2 ἐστὶ* 6 τοῦ] τῆ τριγώνου 10 NPΞM, sed corr. 18 συναμφοτέρως] συναμ 24 ὑπό] mg. m. 1
- p. 156, 3 BAH] A e corr. 4 K] H? 13 AΞN] AHΞ 20 AZ] AB 22 ἡ K* 26 Z] ἐβδόμῳ
- p. 160, 7 ἀνάλογος 9 τετραπλασία — 11 ἡ] om. 21 δέ] δῆ 22 KA] e corr. 25 MN] corr. ex MH
- p. 162, 11 τριγώνου] om.
- p. 164, 6 ἀπό] ὑπό 12 AKM] KA^βM^α 25 δῆ] postea ins. m. 1

PROLEGOMENA.

XXV

- p. 166, 2 δύο] postea ins. δοθεισῶν] e corr. 8 ἀπό] ἐπί
 p. 168, 4 τὸ Δ] postea ins. 14 ΖΞ] corr. ex Ξ 16
 διάμετρος; deinde del. κῶνος
 p. 170, 21 τόν] bis
 p. 172, 2 δεδομένῃ 9 AZΔ] AΔZ
 p. 174, 2*) μὲν] e corr. 13 ΓΑ] A e corr. 15 πρὸς
 ΗΔ] om. κοινός] e corr. 19 ΓΑ] A e corr.
 p. 176, 27 ΔΕ] ΔΗ 29 δὴ] δέ
 p. 178, 2 τῆ — 3 γωνία] om. 4 ΖΒΔ] Β e corr. 13
 ΗΘΝ] ΗΘΚ, Κ e corr. 19 ἦ] postea ins. ἄρα] postea
 ins. 20 ΚΗ] ΚΝ 26 ΖΘ] Ζ postea ins.
 p. 180, 4 τὸ δέ — 5 ΕΖ] om. 18 περι] sic* 25 μεί-
 ζων — ΖΗ] mg. m. 1 26 ἀπό] sic*
 p. 182, 3 ΖΔ] ΖΑ 18 ἔστω] ἔστι
 p. 184, 15 ΗΕ — 16 πρὸς] om.
 p. 186, 5 post ΒΘ del. ὥστε τὰς καταγομένους κατάγεσθαι
 ἐν γωνία 6 δὴ] sic* 20 αἱ] lac. 2 litt.
 p. 188, 9 τῷ] corr. ex τό 10 ἔσται 18 δὴ] ins. m. 1
 p. 190, 2 ΖΑΗ] Α e corr.
 p. 192 Ἀπολλωνίου κωνικῶν ᾧ 5 πῆμα 6 σοι] postea
 ins. 11 αὐτῷ 14 ἀπολειφθῆ
 p. 194, 7 ΓΒ] corr. ex ΒΓ 25 καὶ αἱ — 26 παράλλη-
 λου] om.
 p. 196, 2 ΔΕ] Ε e corr. 9 post ΑΚ ins. ὡς ἄρα τὸ ἀπὸ
 ΓΒ πρὸς τὸ ἀπὸ ΒΔ τὸ ὑπὸ ΑΔΒ πρὸς τὸ ἀπὸ ΑΚ 15 ΜΚΗ]
 ΜΚ ἦ
 p. 200, 8 ἐπιζευχθεῖσα* 12 Η ὅ] e corr. 22 τέμνη]
 corr. ex τέμνει ἦ] ἦ
 p. 202, 9 ἦ] ἦ 13 ἦ] ἦ 18 ΓΔ] sic 24 ΗΕ] ΕΗ
 p. 204, 13 ἀλλ'
 p. 208, 10 ὑπό] corr. ex ὀπό 17 — mg. 18 ΘΗΒ]
 ΘΒΗ
 p. 210, 3 ΖΑΔ] corr. ex ΖΔΑ 6 ΖΑΔ] Α e corr. 20
 ΓΑΔ] corr. ex ΑΓΔ
 p. 212, 2 ΒΑ] corr. ex ΒΔ 17 ἀχθῶσιν] sic*
 p. 214, 5 ὑπὸ ΑΔΓ] sic* 15 μόνον] bis 16 ΓΑ] sic*
 p. 216, 3 Μ] corr. ex Β 5 καὶ (pr.)] om. 15 δέ] om.
 17 ἀφ᾽ ἑξόνται 19 ΑΘ] ΕΘ 21 ΔΗ] Η e corr.

*) Ubi in V error a prima manu correctus est, plerumque de c nihil notauit, si cum V correcto concordat.

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XXVI

PROLEGOMENA.

- p. 222, 5 τοῦ] bis 15 ἐάν] ἐάν ἐν
 p. 224, 25 ἢ (alt.)] sic* 27 κατὰ] sic*
 p. 226, 1 δέ] om. 6 τό] postea ins. 9 ἐστίν] sic* 20
 καί — KE] om.
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