

INSTRUMENTVM

PRIMI MOBILIS, A' PETRO APIANO

NVNC PRIMVM ET INVENTVM ET IN LVCEM EDITVM.

Ad cuius declarationem & intellectū Pronunciata centū hic proponuntur, ē quibus Instrumenti nobilissimi usus innotescit & compositio. Inquirere autē & inuenire licebit in hoc instrumento, quicquid uspiam in uniuerso primo mobili noua quadā sinuum ratione indagari potest: nec quicquā in eo ipso primo mobili desiderare poterit, quod nō per instrumentum hoc inueniri facile queat.

Accedunt ijs

GEBRI FILII AFFLA HISPALENSIS ASTRO

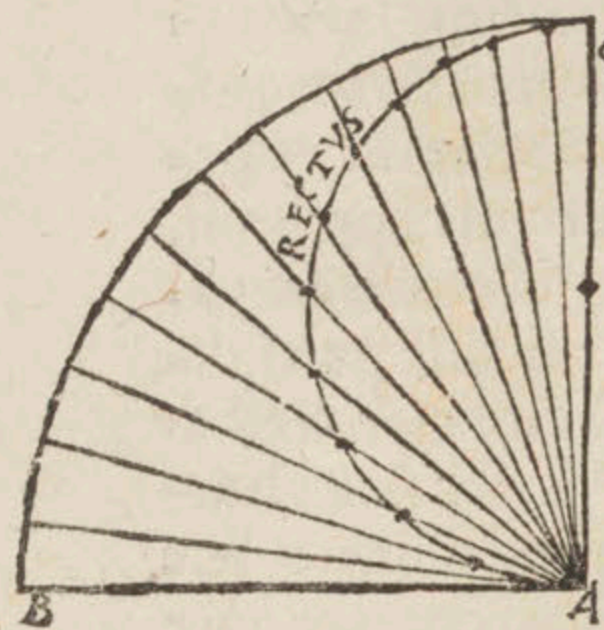
nomi uetustissimi pariter & peritissimi, libri IX. de Astronomiā, ante aliquot secula Arabice scripti, & per Giriardū Cremonensem latinitate donati, nunc uero omniū primum in lucem editi.

Omnia hæc industria & beneuolentia Petri Apiani Mathematici prelo cōmissa, & Reuerendis. in Christo patri & D. D. CHRISTOPHORO A' STADIO, &c. ornatissimo Præsuli Augustensi, ob illustrationem suæ familiæ insignium, dedicata: Quibus & tu studiosè lector benignus fruerè, tanto Præsidi perpetuò gratissimus.

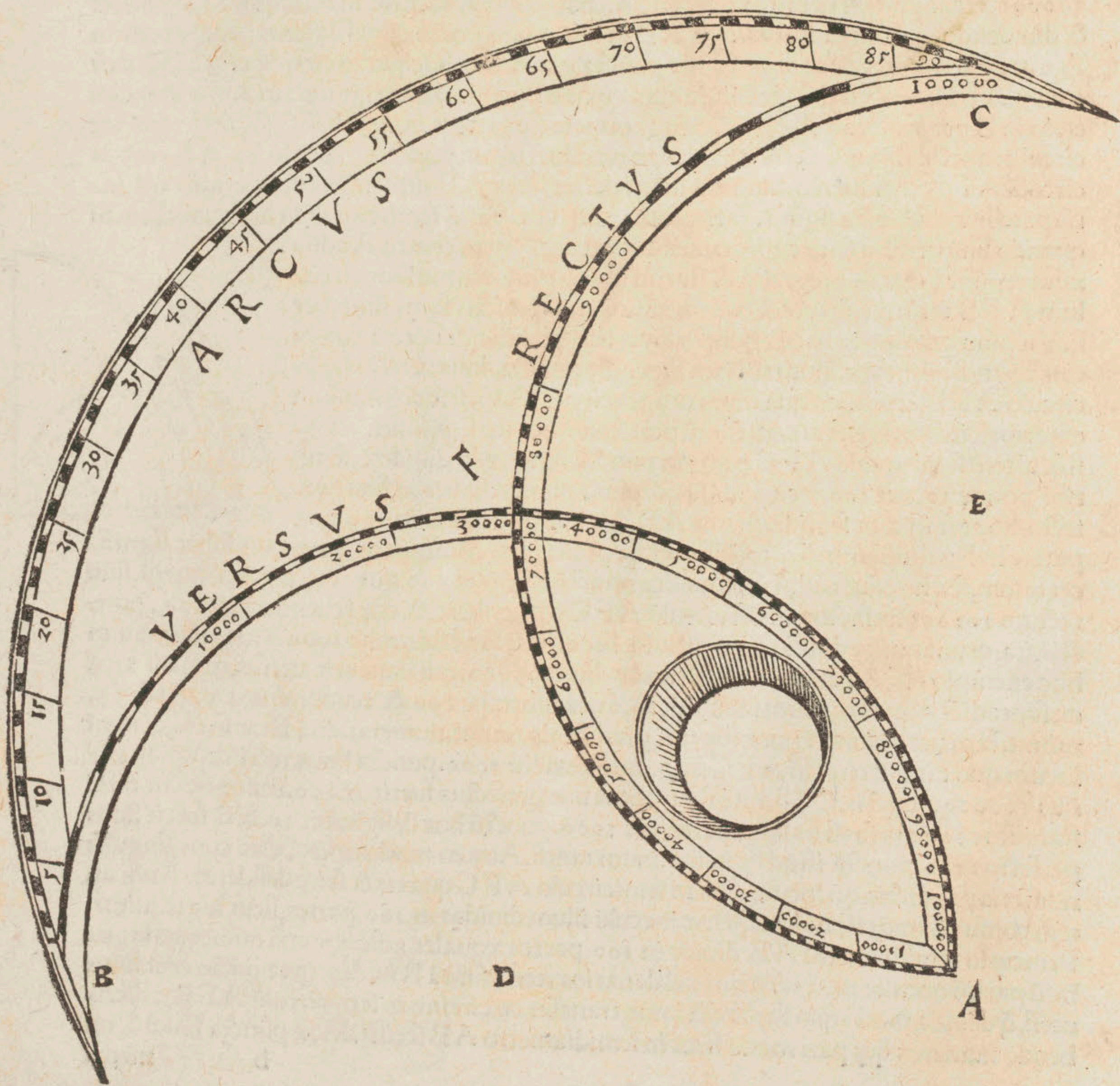


NORIMBERGAE APVD IO. PETREIVM. ANNO M. D. XXXIII.

meros in linea AB dele, quia amplius nulli erunt usui. Totidem etiā puncta esse debebūt sinus recti, ea sic inuenies. Propone tibi tabulā hic sequentem, quā in prima linea continet 100, uersus unūquodq; repositi sunt gradus aliquot cū minutis, id autē quid sit, hoc modo intelliges. Qd' si centesimā partem cupis in semicirculū AFC consignare, filum colloca super 0. grad. 22. minut. iuxta literam B, & ubicunq; filum attinget semicirculū AFC, ibi primam partem ex centum repone. Rursus si duo uis imponere in sinu recto, filum age po nito super 1. grad. 9. minut. illud ubi tanget semicirculū AFC, ibi consi gna 2000. Et in hunc modum operare tam diu, donec semicirculū istū diuiseris in centum partes, numeros quoq; adscribe ab A uersus C. Et sic totidem habebis puncta sinus recti quot uersi seu perfecti. Hinc si ad huc puncta sinus uersi in aliquot partes cupis subdividere, puto in 10. uel 100. ut hic, operaprecium fuerit te etiam puncta sinus recti in tot partes diffecare. neq; magnopere refert, si ea diuidas in tot partes æqua les, quamuis in se sint inæquales. Quomodo autem in quibusdam locis quandam diminutionem partium istarum facere debeas, ex ipso aspe ctu tuo pte marte facile conijcies.

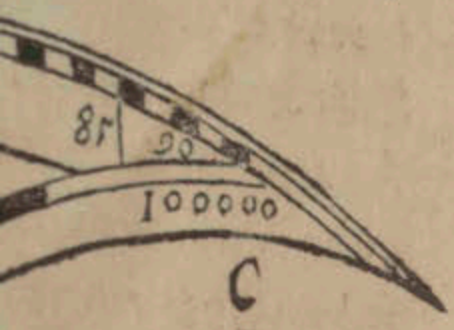


Faciem itaq; huius iam præparati instrumenti hic tibi propositā rectius intueri.

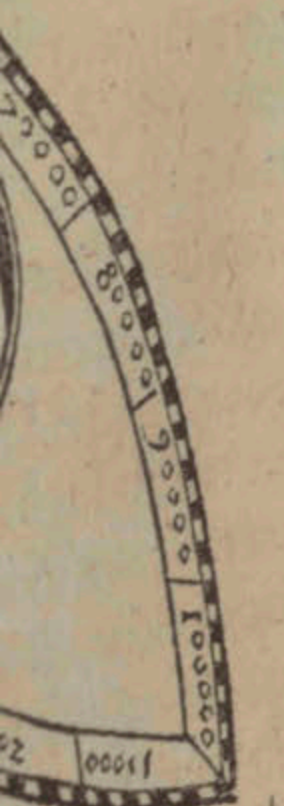


dem etiā puncta esse debent
 quæ in prima linea continet
 is, id autē quid sit, hoc modo
 consignare, flum colloca
 inget semicirculū AFC, ibi
 re in sinu recto, flum age po
 semicirculū AFC, ibi confi
 liu, donec semicirculū istū
 ascribe ab A uersus C. Et
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 subdividere, puto in 10.
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posita rectius intueri.



E



A

Tabula Sinuū rectorū siue semichordarū minutim extensa.

	0	1	2	3	4	5	6	7	8	9
m. Sin.	Sin.	Sin.	Sin.	Sin.	Sin.	Sin.	Sin.	Sin.	Sin.	Sin.
0	00	1745	3489	5233	6975	8715	10452	12186	13917	15643
1	29	1774	3519	5262	7004	8744	10481	12215	13946	15672
2	58	1803	3548	5291	7033	8773	10510	12244	13974	15700
3	87	1832	3577	5320	7062	8802	10539	12273	14003	15729
4	116	1861	3606	5349	7091	8831	10568	12302	14032	15758
5	145	1890	3635	5378	7120	8860	10597	12331	14061	15787
6	174	1919	3664	5407	7149	8889	10626	12360	14090	15815
7	203	1948	3693	5436	7178	8918	10655	12389	14118	15844
8	232	1977	3722	5465	7207	8947	10684	12417	14147	15873
9	261	2007	3751	5495	7236	8976	10713	12446	14176	15901
10	290	2036	3780	5524	7265	9005	10742	12475	14205	15930
11	319	2065	3809	5553	7294	9034	10771	12504	14234	15959
12	349	2094	3838	5582	7323	9063	10799	12533	14262	15988
13	378	2123	3867	5611	7352	9092	10828	12562	14291	16016
14	407	2152	3896	5640	7381	9121	10857	12591	14320	16045
15	436	2181	3925	5669	7410	9150	10886	12619	14349	16074
16	465	2210	3955	5698	7439	9179	10915	12648	14378	16102
17	494	2239	3984	5727	7468	9208	10944	12677	14406	16131
18	523	2268	4013	5756	7497	9237	10973	12706	14435	16160
19	552	2297	4042	5785	7526	9266	11002	12735	14464	16189
20	581	2326	4071	5814	7555	9294	11031	12764	14493	16217
21	610	2355	4100	5843	7584	9323	11060	12793	14521	16246
22	639	2385	4129	5872	7613	9352	11089	12821	14550	16275
23	669	2414	4158	5901	7642	9381	11117	12850	14579	16303
24	698	2443	4187	5930	7671	9410	11146	12879	14608	16332
25	727	2472	4216	5959	7700	9439	11175	12908	14637	16361
26	756	2501	4245	5988	7729	9468	11204	12937	14665	16389
27	785	2530	4274	6017	7758	9497	11233	12966	14694	16418
28	814	2559	4303	6046	7787	9526	11262	12994	14723	16447
29	843	2588	4332	6075	7816	9555	11291	13023	14752	16476
30	873	2617	4361	6104	7845	9584	11320	13052	14780	16504
31	901	2646	4391	6133	7874	9613	11349	13081	14809	16533
32	930	2675	4420	6162	7903	9642	11378	13110	14838	16562
33	959	2704	4449	6191	7932	9671	11407	13139	14867	16590
34	989	2734	4478	6220	7961	9700	11435	13167	14896	16619
35	1018	2763	4507	6250	7990	9729	11464	13196	14924	16648
36	1047	2792	4536	6279	8019	9758	11493	13225	14953	16676
37	1076	2821	4565	6308	8048	9787	11522	13254	14982	16705
38	1105	2850	4594	6337	8077	9816	11551	13283	15011	16734
39	1134	2879	4622	6366	8106	9845	11580	13312	15039	16762
40	1163	2908	4652	6395	8135	9874	11609	13340	15068	16791
41	1192	2937	4681	6424	8164	9903	11638	13369	15097	16820
42	1221	2966	4710	6453	8193	9931	11667	13398	15126	16848
43	1250	2995	4739	6482	8222	9960	11695	13427	15154	16877
44	1279	3024	4768	6511	8251	9989	11724	13456	15183	16906
45	1308	3053	4797	6540	8280	10018	11753	13485	15212	16934
46	1338	3082	4826	6569	8309	10047	11782	13513	15241	16963
47	1367	3112	4855	6598	8338	10076	11811	13542	15269	16992
48	1496	3141	4884	6627	8367	10105	11840	13571	15298	17020
49	1425	3170	4914	6656	8396	10134	11869	13600	15327	17049
50	1454	3199	4943	6685	8425	10163	11898	13629	15356	17078
51	1483	3228	4972	6714	8454	10192	11927	13658	15384	17106
52	1512	3257	5001	6743	8483	10221	11955	13686	15413	17135
53	1541	3286	5030	6772	8512	10250	11984	13715	15442	17164
54	1570	3315	5059	6801	8541	10279	12013	13744	15471	17192
55	1599	3344	5088	6830	8570	10308	12042	13773	15499	17221
56	1628	3373	5117	6859	8599	10337	12071	13802	15528	17250
57	1657	3402	5146	6888	8628	10366	12100	13830	15557	17278
58	1687	3431	5175	6917	8657	10394	12129	13859	15585	17307
59	1716	3460	5204	6946	8686	10423	12158	13888	15614	17336
60	1745	3489	5233	6975	8715	10452	12186	13917	15643	17364

Quandoquidē alia
 alijs placent, & in eo-
 dem disciplinæ gene-
 re alijs aliter uersantur
 pro suo quisq; arbitrio.
 Igitur quum sint
 multi, qui numeris eti-
 am Arithmeticiis plu-
 rimū oblectent, neq;
 parū iuuentur, est em
 reuera studiū illud &
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 rum longe utilissimū.
 libuit in gratiam eorū
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 gis arrident q̃ instru-
 menta, adponere hic
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 ipsi supputauimus ad
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 studiosorū uideremur
 adiuuare profectum.