

ELEMENTS AND EPHEMERIS OF THE FORTY-SEVENTH ASTEROID.

BY DR. C. BRUHNS.

ELEMENTS :

From Observations of Sept. 17, Oct. 6 and Oct. 25.

Epoch 1857 Oct. 6.0 Berlin M. T.

M	43° 53' 42.8
π	306 1 22.1
Ω	4 24 59.1
i	5 5 48.8
φ	8 3 32.1
μ	722.413
$\log a$	0.460814

EPHEMERIS.

Berlin Mean Midnight.

Date.	(47) α	(47) δ	$\log \Delta$	Date.	(47) α	(47) δ	$\log \Delta$
	^h ^m ^s	[°] ['] ^{''}			^h ^m ^s	[°] ['] ^{''}	
Nov. 22	23 36 12	—1 27.2		Dec. 4	23 41 49	—0 37.1	
23	36 33	23.7		5	42 25	32.2	
24	36 56	20.0	0.3363	6	43 2	27.2	0.3694
25	37 20	16.2		7	43 40	22.1	
26	37 45	—1 12.4		8	44 18	—0 17.0	
27	38 11	1 8.4		9	44 58	0 11.7	
28	38 39	1 4.2	0.3474	10	45 39	0 6.3	0.3802
29	39 8	0 59.9		11	46 21	—0 0.8	
30	39 38	—0 55.6		12	47 4	+0 4.8	
Dec. 1	40 9	51.2		13	47 48	+0 10.5	
2	40 41	46.6	0.3585	14	23 48 33	+0 16.3	0.3908
3	23 41 14	—0 41.9					

COMET 1857 VI.

THIS was detected by Professor DONATI at Florence on the evening of the 10th of November, and observed as follows :

	Florence M. T.	α	δ
Nov. 10	7 ^h 5 ^m 34 ^s	232° 8' 59"	+55° 44' 12"
	9 33 34	232 48 4	

Professor PETERS observed it at Altona :

	Altona M. T.	α	δ
Nov. 15	7 ^h 33 ^m 26 ^s 8	260° 30' 22.1	+49° 22' 21.6
	7 35 37.7		

Mr. VAN ARSDALE's discovery was on the same evening as Prof. DONATI's, and within a few minutes of the same local time
Cambridge, 1857 Dec. 3. G.

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