

ob G.M.T.	R.A. h m s	N.P.D. ° ' "	Log. Δ.	I.
1872, Jan. 1	12 47 44	156° 5' 0"	0.0054	
3	12 57 9	157 28.0	0.0156	0.72
5	13 6 58	158 45.1	0.0255	
7	13 17 12	159 56.4	0.0349	0.63
9	13 27 50	161 2.3	0.0441	
11	13 38 52	162 3.0	0.0530	0.55
13	13 50 18	162 58.7	0.0616	
15	14 2 7	163 49.8	0.0698	0.48
17	14 14 16	164 36.7	0.0778	
19	14 26 43	165 19.5	0.0854	0.43

Elements of Minor Planet (116). By Dr. R. Luther.

Epoch 1871, September 23^h 0 Berlin Mean Time.

L ..	8° 58' 12.6"	} Mean Equinox, 1871.0.
M..	221 44 19.7	
π ..	147 13 52.9	
Ω..	64 14 13.0	
i ..	3 35 28.7	
φ ..	8 31 35.0	
μ ..	764'' 812143	
Log. a	0.4443012	

These elements have been computed from observations made in Germany.

Comet IV., 1871, discovered by M. Tempel at Milan on the 3d November.

The elements, calculated by MM. Oppolzer and Schulhof, are as follows :—

T =	December 20.1155 Berlin M.T.
π =	22° 25' 39" } Mean Equation
Ω =	145 19 53 } 1871.0.
i =	102 7 40
Log q =	9.87628.

Instrument for Sale.

A 30-inch Transit by Dollond, with Iron Stand; quite new and complete. Packed in case. Price 20l. Apply to T. H. Burr, Esq., 12 Paternoster Row, E.C.