

Meridian Observations and Elements of Comet Wells.

The place of the comet at lower culmination was compared, by means of the Pistor and Martins circle, with stars preceding and following on nearly the same parallel of declination. When the stars selected from 539 Sterne proved insufficient, special star positions were computed from a combination of good modern authorities. The ob-

servations were reduced by assistant R. H. Tucker jr. and compared with places specially computed by him from elements by C. S. Wells, given below. The Albany mean times are corrected for aberration. The declinations have also been corrected for parallax, and the quantity used is given in the column following:

1882	Albany m. t.	α app.	δ app.	Parallax	Corr. to eph. $\Delta\alpha$ $\Delta\delta$		Observer
May 15	9 ^h 48 ^m 24. ^s 0	1 ^h 30 ^m 44. ^s 62	+72° 41' 54".3	+ 8".9	+ .04	— 0".7	Boss.
16	10 4 58.4	1 51 16.84	+71 48 25.0	+ 9.0	+ .50	— 5.8	Tucker.
23	11 14 19.7	3 28 23.33	+62 34 41.7	+ 9.6	+ .32	— 1.8	Boss.
25	11 23 7.1	3 45 7.42	+59 18 4.8	+ 9.7	+ .33	— 0.7	Tucker.
26	11 26 18.0	3 52 17.99	+57 35 12.0	+ 9.7	+ .30	— 2.9	Tucker.

The interval from May 16 to May 23 was almost continuously cloudy. The elements used in the comparisons were computed by Assistant C. S. Wells and appear to be accurate. The Albany filar-micrometer observations used by Mr. Wells are as follow:

1882	Albany m. t.	$\Delta\alpha$	$\Delta\delta$	Comp.	α app.	$\log p.\Delta$	δ app.	$\log p.\Delta$	Obs.	*
March 19	13 ^h 27 ^m 18. ^s	+ 1 ^m 38. ^s 76	+ 2' 42".5	27.9	17 ^h 54 ^m 45. ^s 53	9.686 _n	+33° 27' 23".2	0.566	B*)	1
19	15 18 11	+ 1 46.55	+ 5 8.1	9.3	17 54 53.33	9.526 _n	+33 29 49.0	0.354	B	1
April 14	10 40 45	+ 0 44.54	+ 0 39.5	12.6	18 52 18.72	9.836 _n	+51 44 52.0	0.679	E	2
16	9 46 23	+ 1 0.10	— 0 0.7	20.10	18 59 12.58	9.820 _n	+53 34 47.0	0.764	E	3
16	10 33 27	— 1 10.01	+ 0 10.7	18.9	18 59 19.63	9.852 _n	+53 36 36.9	0.680	E	4
17	10 10 50	— 0 15.90	— 1 35.5	12.6	19 3 3.40	9.842 _n	+54 32 54.6	0.735	E	5
May 15	10 3 3	— 2 21.06	— 4 33.3	30.10	1 30 50.96	—	+72 41 32.6	0.997	E	6

*) B = Boss; E = Egbert.

Comparison Stars.

*	α 1882.0	δ 1882.0	Authority
1	17 ^h 53 ^m 5. ^s 59	+33° 24' 54".7	2 Albany Mer.-Obs.
2	18 51 32.79	51 44 25.3	Albany Mer.-Obs.
3	18 50 11.09	53 35 0.2	Albany Mer.-Obs.
4	19 0 28.26	53 36 38.6	AOe. 18898
5	19 3 17.93	54 34 42.4	Albany Mer.-Obs.
6	1 33 11.71	72 46 7.9	2 Albany Mer.-Obs.

To these were added the Albany meridian observation of May 15; Kiel April 14; and Paris April 14, 16. The resulting elements are:

$$\begin{aligned}
 T &= 1882 \text{ Juni } 10.530055 \text{ Greenwich m. t.} \\
 \pi - \Omega &= 208^\circ 59' 29".6 \\
 \Omega &= 204 \ 56 \ 16.8 \\
 i &= 73 \ 48 \ 32.3 \\
 \log q &= 8.7837199.
 \end{aligned}$$

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Middle place (C — O)

$$\begin{aligned}
 \Delta\lambda \cos\beta &= -2".6 \\
 \Delta\beta &= +1.0
 \end{aligned}$$

Equations of coordinates.

$$\begin{aligned}
 x &= r[9.9611147] \sin(126^\circ 22' 45".2 + v) \\
 y &= r[9.8608394] \sin(61 \ 11 \ 35.7 + v) \\
 z &= r[9.9021089] \sin(196 \ 51 \ 16.3 + v)
 \end{aligned}$$

Dudley Observatory 1882 June 1.

Lewis Boss.

Ueber die Periode des veränderlichen Sterns DM. +1°3408.

Im Dun Echt Circular No. 53 findet sich folgende Nachricht über obigen Stern, dessen Veränderlichkeit von Herrn Edw. F. Sawyer in A. N. Bd. 101 pag. 187 angezeigt ist. Die dort angegebene Periode beträgt $5\frac{1}{4}$ Tage.

»A Science Observer telegram announces that Mr. S. C. Chandler, Jr. finds the period of the variable star DM. +1°3408 to be only 0.83 days. A minimum occurs on July 1, 12^h 57^m 6 G. M. T.«