National Observatory.

Observations of Psyche made with the Filar-Micrometer of the Washington Equatoreal by *J. Ferguson*,
Communicated by *Lieut. Maury*. (Corrected for refraction).

1852	M. T. Wash.	No. of Comp.	Star of Comp.	$\Delta\alpha.$	$\Delta\delta.$	$\alpha.$	$\delta.$	A
May 6	11 ^h 50 ^m 16 ^s .1	4	Weisse IX. 1259	-3 ^m 22 ^s 39	+ 0' 4" 30	9 ^h 55 ^m 16 ^s .42	+13 ^o 30' 9" 16	10
7	8 14 30,1	9	3061 Rümker	-1 16,78	- 5 18,33	9 55 39,94	13 28 27,67	8
10	8 43 5,9	10	—	+0 8,11	-11 52,09	9 57 4,78	13 21 54,14	10
—	9 45 26,2	4	—	+0 9,63	-11 56,83	9 57 6,30	13 21 49,40	—
13	9 21 42,6	14	<i>a</i>	+1 7,46	- 0 49,76	9 58 38,65	13 14 30,78	10
—	10 17 13,3	5	—	+1 8,73	- 0 54,43	9 58 39,91	13 14 26,11	—
18	8 56 28,5	10	3069 Rümker	+1 12,40	+17 29,37	10 1 32,20	13 0 33,73	10
—	9 13 48,7	4	α Leonis	+1 3,16	+19 14,10	10 1 32,33	13 0 33,10	—
20	8 31 13,8	6	—	+2 17,65	+13 6,29	10 2 46,80	12 54 25,48	10
—	—	6	Weisse X. 45	-0 53,41	+ 8 35,42	10 2 46,62	12 54 27,51	—
24	8 29 55,4	9	—	+1 46,22	- 4 44,60	10 5 26,22	12 41 6,69	10
25	8 41 15,6	3	—	+2 28,43	- 8 16,34	10 6 8,41	12 37 35,01	10
31	9 26 38,6	11	3113 Rümker	+2 19,96	-12 21,43	10 10 36,01	12 12 49,46	10
June 9	9 18 37,3	3	3172 Rümker	+0 52,21	- 1 44,09	10 17 58,81	11 35 25,24	8
—	10 16 4,8	3	—	+0 54,31	- 1 53,17	10 18 0,92	11 35 16,15	—
10	8 52 31,2	11	—	+1 43,51	- 6 19,83	10 18 50,09	11 30 49,54	8
11	9 17 42,0	5	—	+2 37,11	-11 7,99	10 19 43,69	11 26 0,31	10
—	9 19 50,0	4	Weisse X. 316	+1 8,58	+10 41,01	10 19 43,75	11 26 3,15	—
12	9 12 48,9	4	—	+2 1,80	+ 5 52,76	10 20 36,97	11 21 14,99	8
15	8 42 48,8	8	Weisse X. 377	+1 48,62	+10 24,17	10 23 18,01	+11 6 31,19	8

Psyche was seen on the nights of the 13. of June and 2d of July, but on both these nights other stars, nearer the computed places were compared instead of it. It was looked for until the 10. of July, but the weather was unfavorable.

Adopted mean places for 1850,0 of stars of comparison.

Star.	Mag.	$\alpha.$	$\delta.$	Authority.	Nr. obs.
Weisse IX. 1259	8	9 ^h 58 ^m 32 ^s .19	+13 ^o 30' 40" 93	Weisse Catalogue.	
3061 Rümker	8.9	9 56 50,10	13 34 21,59	Rümker Catalogue.	
<i>a</i>	9	9 57 24,82	13 15 56,82	Wash. Equatoreal from preceding * 14	
3069 Rümker	7.8	10 0 13,33	12 43 40,11	Rümker Catalogue.	
α Leonis	1	10 0 22,705	12 41 54,76	Washington Catalogue 1846	
Weisse X. 45	8	10 3 33,58	12 46 26,93	Weisse Catalogue.	
3113 Rümker	9	10 8 9,70	12 24 46,61	Rümker Catalogue.	
3172 —	8.9	10 17 0,33	11 37 45,42	—	
Weisse X. 316	7.8	10 18 28,93	11 15 58,45	Weisse Catalogue.	
— 377	9	10 21 23,82	+11 17 31,49	—	

Elemente der Melpomene und Vergleichung derselben mit bekannten Beobachtungen,
von Herrn *Klinkerfues*.

Elemente, berechnet aus der Berliner Meridiankreis-Beobachtung vom Juni 29 und den Göttinger Beobh. vom Juli 7. u. 17.

Epoche: 1852 Juni 30,0 Berlin			
Mittl. Länge = 299° 50' 49" 1	} mittl. Aequin. 1852,0		log. <i>e</i> = 9,3419816
π = 14 59 12,2			log. <i>a</i> = 0,3621547
Ω = 149 54 41,7			Mittl. sider. Bewegung = 1015" 721
<i>i</i> = 10 10 17,9			
ϕ = 12 41 45,3			