

Astronomische Nachrichten.

Expedition auf der Königlichen Sternwarte bei Kiel.

Herausgeber: Prof. Dr. C. A. F. Peters.

Band 88.

Nr. 2092.

4.

Planetenbeobachtungen, angestellt am 6zölligen Refractor der Wiener Sternwarte
von L. Schulhof.

(67) Asia.

1875	Mittl. Wien. Zt.	Planet — Stern	Vgl.- Stern	Zahl d.Vgl.	α app.	L. f. p.	δ app.	L. f. p.
		$\Delta\alpha$ $\Delta\delta$						
Januar 28	9 ^h 0 ^m 7 ^s .8	— 1 ^m 14 ^s 47 — 4' 16'' 7	1	8	8 ^h 7 ^m 57 ^s .39	8.457 _n	+ 11° 5' 57'' 2	9.801

(142) Polana.

Januar 31	10 19 11.9	— 1 35.68	.....	2	2	8 22 45.98	8.209 ⁿ	+18 25 ....	.....
31	10 47 35.2	— 1 36.90	+ 1 33.8	2	4	8 22 44.76	8.026 ⁿ	+18 25 38.5	9.701

(36) Atalante.

Februar 23	9 8 33.3	+ 2 55.63	— 3 9.0	3	6	9 1 27.40	8.514 ⁿ	+29 16 39.8	9.602
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(109) Felicitas.

Februar 24	8 34 4.5	{ +0 23.31 — 3 46.18	— 19 34.4 + 20 39.5	4 5	4 2	9 43 43.93	8.515 ⁿ	+22 23 7.6	9.702
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(134) Sophrosyne.

Februar 24	9 13 2.2	+ 0 46.11	— 1 11.7	6	6	10 21 58.00	8.489 ⁿ	+14 53 11.6	9.773
März 4	9 35 50.9	+ 0 29.79	— 21 38.1	7	3	10 13 30.11	8.323 ⁿ	+14 56 29.7	9.754
5	9 47 41.7	{ — 0 30.64 + 0 43.62	— 21 45.2 + 22 58.1	7 8	3 3	10 12 29.21	8.255 ⁿ	+14 56 23.2	9.750
6	8 16 53.8	{ — 0 11.25 — 1 26.75	+ 22 48.1 — 21 54.5	8 7	4 4	10 11 33.72	8.510 ⁿ	+14 56 13.6	9.777

(143) Adria.

Februar 24	10 15 34.1	{ + 0 0.26 — 1 19.49	— 17 28.4 + 19 36.6	9 10	4 4	9 56 53.86	8.215 ⁿ	+13 46 44.9	9.760
März 3	9 10 49.9	— 1 32.35	— 0 24.6	11	10	9 50 13.81	8.340 ⁿ	+13 49 44.0	9.767
4	9 3 52.1	— 2 26.39	— 0 20.7	11	6	9 49 19.77	8.345 ⁿ	+13 49 48.0	9.767
5	8 44 8.3	— 3 19.50	— 0 10.6	11	6	9 48 26.67	8.395 ⁿ	+13 49 58.1	9.758
7	9 2 38.1	+ 1 24.26	— 2 14.1	12	8	9 46 39...	8.297 ⁿ	+13 49	9.764

(141) Lumen.

März 3	9 25 36.1	{ — 1 9.07 — 0 12.87	— 16 46.0 + 0 23.4	13 14	3 3	9 53 9.97	8.289 ⁿ	+ 8 32 19.8	9.812
5	8 0 27.0	— 1 52.99	+ 4 11.9	14	6	9 51 28.93	8.496 ⁿ	+ 8 36 11.9	9.823
7	9 26 2.3	+ 0 45.66	— 1 27.5	15	8	9 49 44.46	9.202 ⁿ	+ 8 40 3.2	9.808

(103) Hera.

März 5	9 17 49.7	{ + 0 39.72 — 2 10.18	— 15 52.1 + 20 50.2	16 17	3 3	10 13 52.19	8.363 ⁿ	+13 48 47.7	9.769
13	10 11 10.7	+ 0 36.83	+ 2 18.7	18	6	10 7 52.05	7.808 ⁿ	+14 31 40.3	9.745
15	9 37 45.8	+ 0 49.54	— 19 56.2	19	3	10 6 31.18	8.049 ⁿ	+14 40 57.3	9.746

1875	Mittl. Wien. Zt.	Planet — Stern	$\Delta\alpha$	$\Delta\delta$	Vgl.- Stern	Zahl d. Vgl.	α app.	L. f. p.	δ app.	L. f. p.
März 15	9 ^h 43 ^m 55 ^s .4	+1 ^m 20 ^s 93	— 0' 51''9	20	6	10 ^h 6 ^m 31 ^s 26	8.001 _n	+14°41' 2''4	9.745	
16	9 10 38.2	{ —1 21.16 —0 20.19	+15 59.8 —23 17.7	18 21	4 4	10 5 53.66	8.193 _n	+14 45 25.2	9.749	
(124) Alceste.										
März 13	9 29 5.6	+2 27.09	— 3 3.0	22	6	11 21 36.50	8.428 _n	+ 2 35 55.5	9.858	
15	10 38 18.3	+1 32.48	+ 2 44.3	23	6	11 19 54.04	8.120 _n	+ 2 49 33.1	9.853	
16	9 42 36.0	{ +1 22.45 +0 8.12	— 2 6.3 — 2 39.9	24 25	8	11 19 5.66	8.348 _n	+ 2 55 58.1	9.854	
17	9 42 42.7	—0 41.49	+ 3 57.0	25	10	11 18 16.76	8.330 _n	+ 3 2 34.7	9.854	
(93) Minerva.										
April 27	9 52 1.6	{ —0 30.09 +2 1.24	+20 14.7 —19 52.1	26 27	3 3	12 52 30.28	7.882 _n	—10 32 21.8	9.931	
(108) Hecuba.										
April 27	10 37 19.4	{ +0 34.36 —0 16.47	— 2 35.1 — 3 20.2	28 29	8	13 31 56.12	7.814 _n	—14 0 5.1	9.946	
Mai 4	10 29 15.5	+0 13.96	— 0 12.8	30	8	13 27 0.42	7.200 _n	—13 36 37.7	9.945	
(55) Pandora.										
Mai 9	10 55 10.4	{ +1 54.70 —0 18.17	— 2 12.1 — 2 49.4	31 32	6	14 24 43.65	7.623	—20 26 37.7	9.968	
(68) Leto.										
Mai 22	9 57 45.9	+0 27.95	+ 3 0.3	33	6	14 21 3.47	7.715 _n	—14 13 35.2	9.947	
(113) Amalthea.										
Mai 22	10 30 34.6	—1 12.16	+ 5 21.6	34	8	15 30 30.67	8.066 _n	—10 17 41.8	9.928	
Juni 1	11 6 44.6	{ +1 0.23 —2 21.25	+22 1.5 —16 35.3	35 36	3 3	15 21 44.18	7.690	—10 9 39.5	9.930	
(128) Nemesis.										
Mai 22	11 14 0.4	{ +3 16.38 —1 32.96	—17 0.9 +15 5.7	37 38	2 2	15 54 36.11	7.908 _n	—17 40 18.2	9.958	
(110) Lydia.										
Juni 1	10 32 59.6	—1 47.77	— 3 51.0	39	6	14 39 45.71	7.803	—14 46 15.4	9.949	
2	10 22 51.4	—2 26.81	— 3 2.0	39	4	14 39 6.68	7.739	—14 45 26.4	9.949	
(72) Feronia.										
Juni 2	10 55 44.5	{ +1 18.71 —1 5.56	—20 26.2 +18 49.7	40 41	3 3	15 20 8.32	7.586	—12 46 17.6	9.941	
(45) Eugenia.										
Juni 21	11 23 17.7	+1 58.90	+ 2 13.9	42	6	16 58 47.32	7.634	—12 38 56.0	9.941	
24	11 3 28.2	—0 20.54	— 1 40.2	42	8	16 56 27.90	7.544	—12 42 50.0	9.941	
(130) Electra.										
Juni 23	10 41 38.7	+1 20.97	+ 0 56.8	43	6	17 6 57...	7.616 _n	+ 6 35	9.822	
(144) Vibilia.										
Juni 30	10 35 29.0	—2 57.58	— 1 25.4	44	8	16 54 52.94	7.484	—23 33 57.1	9.978	
Juli 6	11 39 50.5	—0 55.28	—13 25.5	45	4	16 49 34.76	8.340	—23 36 14.2	9.964	
28	10 8 18.1	+0 6.88	— 2 23.0	46	8	16 40 22.16	8.359	—23 47 24.0	9.964	
29	10 10 50.8	+0 0.48	— 3 14.9	46	8	16 40 15.75	8.383	—23 48 15.9	9.962	
(88) Thisbe.										
Juli 1	11 23 47.0	{ —1 36.09 —3 9.28	+14 1.9 —18 12.2	47 48	4 4	17 35 40.57	7.766	—24 23 40.0	9.979	

(147) Protogeneia.

1875	Mittl. Wien. Zt.	Planet — Stern $\Delta\alpha$	Stern $\Delta\delta$	Vgl.-Zahl Stern d.Vgl.	α app.	L. f. p.	δ app.	L. f. p.
Juli	11 12 ^h 59 ^m 23 ^s 1	—0 ^m 41 ^s 28	+ 0' 30" 6	49 6	20 ^h 19 ^m 22 ^s 89	6.636 _n	—17° 29' 53" 9	9.959
	12 13 55 54.8	—1 28.01	— 1 28.7	49 9	20 18 36.17	8.076	—17 31 53.1	9.957
	13 12 49 0.0	—2 11.02	— 3 22.9	49 12	20 17 53.18	6.801 _n	—17 33 47.3	9.959
	24 10 26 9.2	—3 23.74	— 4 22.2	50 5	20 9 14.40	8.271 _n	—17 58 1.0	9.953
	26 11 6 19.1	+0 44.32	+ 1 42.7	51 5	20 7 36.38	7.955 _n	—18 1 18.0	9.960
	27 11 46 24.9	—0 5.40	— 0 26.5	51 10	20 6 46.67	6.200 _n	—18 3 27.2	9.961
	28 10 47 53.6	—0 51.44	— 2 34.5	51 8	20 6 0.64	8.024 _n	—18 5 35.2	9.959
	29 11 48 36.3	+1 1.63	+ 3 32.6	52 4	20 5 11.17	7.388	—18 7 42.8	9.961
	30 11 26 53.0	+0 14.98	+ 1 16.3	52 6	20 4 24.53	7.070 _n	—18 9 59.1	9.962
August	3 10 13 56.9	{ +0 18.27 +0 41.63	{ +18 19.8 — 2 12.8	{ 53 5 54 5	20 1 20.15	8.077 _n	—18 18 16.2	9.959
	8 10 19 25.7	+1 59.31	+ 2 39.3	55 6	19 57 39.57	7.791 _n	—18 28 24.4	9.962
	9 10 32 30.2	+1 16.60	+ 0 36.8	55 8	19 56 56.86	7.402 _n	—18 30 26.9	9.963

(96) Aegle.

Juli	27 11 18 2.4	+1 3.83	— 1 45.1	56 6	20 31 24.96	8.372 _n	—26 53 19.5	9.982
	28 11 28 35.8	+0 5.63	— 1 19.3	56 8	20 30 26.77	7.905 _n	—26 52 53.7	9.983
	29 11 22 40.5	—0 50.89	— 0 48.8	56 4	20 29 30 26	7.921 _n	—26 52 23.2	9.983

(135) Hertha.

Juli	28 9 26 41.1	—0 45.87	— 4 0.2	57 4	20 27 16.10	8.480 _n	—22 18 46.5	9.948
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(65) Cybele.

Juli	30 11 22 54.6	—0 23.46	— 0 10.5	58 6	19 26 59.49	7.765	—18 26 39.9	9.962
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(136) Austria.

Septbr.	9 10 32 26.8	—0 56.83	+ 0 52.6	59 8	23 21 44.86	8.254 _n	+ 1 35 9.6	9.862
	10 10 34 1.6	{ +0 29.91 +0 34.16	{ +22 42.2 —24 3.6	{ 60 3 61 3	{ 23 20 57.94 23 20 10.46	{ 8.226 _n 8.230 _n	{ + 1 23 43.8 + 1 12 12.1	{ 9.864 9.865
	11 10 28 33.4	—1 12.16	— 0 3.6	62 8	23 20 10.46	8.230 _n	+ 1 12 12.1	9.865

(153) Hilda.

Novbr.	3 10 33 28.8	—0 55.46	— 1 28.2	63 8	3 0 54.57	8.283 _n	+17 31 4.1	9.723
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(152) Atala.

Novbr.	3 12 7 9.1	+0 26.86	—10 9.4	64 4	2 37 24.84	7.623	+15 24 42.6	9.734
	3 12 46 59.2	—0 29.85	+20 52.4	65 4	2 37 23...	8.083	+15 24	9.739
	4 10 21 23.6	{ —0 24.44 —1 20.24	{ —10 19.6 +20 46.9	{ 64 5 65 5	{ 2 36 33... 2 36 33...	{ 8.200 8.200	{ +15 24 +15 24	{ 9.743 9.743

Bemerkungen zu den Planetenbeobachtungen.

(142)	Januar 31	Planet 12 ^m 2
(134)	März 4	Beobachtung wegen rasch eintretender Bewölkung unterbrochen
(143)	Februar 24	Grösse 12.0; März 3 Grösse 12.2; März 4 Grösse 12.3
(141)	März 3	Grösse 12.3, März 5 Planet an der Gränze der Sichtbarkeit
(144)	Juni 30	Grösse 11.5, Juli 6 Beobachtung unsicher
	Juli 28	Grösse 12.2, Juli 29 Planet an der Gränze der Sichtbarkeit
(88)	Juni 23	bedeckte der Planet gegen 11 ^h 40 ^m nahezu vollständig den Stern A.-Oe. 1731 8/9
(147)	Juli 11	Grösse 12.0, Beobachtung wegen Bewölkung unterbrochen
	12	Die 2. Hälfte der Beobachtung wegen bereits störender Dämmerung unsicher
	24	Beobachtung wegen der Nähe eines schwachen Sternchens, das manchmal statt des Planeten genommen sein dürfte, sehr unsicher

- (147) August 8 Dunstig, Planet an der Gränze der Sichtbarkeit
 9 Grösse 12.3
 (153) Planet an der äussersten Gränze der Sichtbarkeit, Grösse 12.5
 (152) Planet 11.5. Die Declination der ersten Beobachtung vom 3. und 4. wegen all zu grosser Sehnen
 unsicher. Am 4. war es sehr nebelig

Mittlere Oerter der Vergleichsterne für 1875.0.

Nr.		α	δ	Gew.	Nr.		α	δ	Gew.
1.	W. I, 182	8 ^h 9 ^m 10 ^s 52	+11° 10' 12" 9	1.0	12.	B. D. 2168	9 ^h 45 ^m 13 ^s ..	+13° 51'	
	Par. Ann. XIV	.....	11.2	0.1		Red.	+1.62	-2' 5	
	ang.	8 9 10.52	+11 10 11.2		13.	1864 u. 1865 Quet.	9 54 18.39	+ 8 49 6.5	
	Red.	+1.34	+2.7			Red.	+1.56	-3.6	
2.	W. II, 533	8 24 20.19	+18 24 2.5		14.	W. I, 1122	9 53 20.36	+ 8 32 6.1	1.0
	Red.	+1.47	+2.2			Par. Ann. XIX	.....	3.6	0.1
3.	B. D. 1990	9 58 29.83	+29 19 50.8			ang.	9 53 20.36	+ 8 32 3.6	
	Red.	+1.94	-2.0			Red. März 3, 5	+1.56	-3.6	
4.	W. II, 89 4/5	9 43 19.78	+22 42 46.0		15.	Par. Ann. XV, XVI	9 48 57.29	+ 8 41 34.7	2
	Red.	+1.77	-1.7			XVII, XIX			
5.	W. II, 984	9 47 27.42	+22 2 27.7			1862 und 1863 Quet.	57.22	33.4	2
	Red.	+1.76	-2.0			Schj. 3649	57.20	33.3	1
6.	W. II, 393	10 21 9.94	+14 54 27.9			ang.	9 48 57.25	+ 8 41 34.1	
	Red.	+1.65	-4.6			Red.	+1.55	-3.4	
7.	Rüm. 3131	10 12 58.36	+15 18 10.9	1	16.	Schj. 3780	10 13 10.33	+14 4 43.4	
	1849 Cambr.	58.89	12.7	1		Red.	+1.67	-4.2	
	ang.	10 12 58.63	+15 18 11.8		17.	B. D. 2246	10 16 0.20	+13 28 2.5	
	Red. März 4, 5, 6	+1.69	-4.0			Red.	+1.66	-4.4	
8.	1849 Cambr.	10 11 43.54	+14 33 31.5	1	18.	Rüm. 3091	10 7 13.45	+14 29 23.8	1
	7 Y. Cat. 789	43.37	28.9	2		A. N. Nr. 1383	13.58	25.7	3
	ang.	10 11 43.43	+14 33 29.8			ang.	10 7 13.55	+14 29 25.2	
	Red. März 5, 6	+1.68	-4.0			Red. März 13	+1.67	-3.6	
9.	Rüm. 3054	9 56 52.36	+14 4 17.1	1		16	+1.66	-3.5	
	B. D. 2193	52.57	17.8	2	19.	B. D. 2175	10 5 39.98	+15 0 56.8	
	Schj. 3693	52.57	18.9	1		Red.	+1.66	-3.3	
	Par. Ann. XVIII	52.47	19.5	1	20.	Wien. Mer.-B.	10 5 8.66	+14 41 57.6	
	ang.	9 56 52.51	+14 4 18.2			Red.	+1.67	-3.3	
	Red.	+1.62	-3.3		21.	B. D. 2176	10 6 11.99	+15 8 49.8	
10.	Rüm. 3061	9 58 11.03	+13 27 10.4	1		Red.	+1.67	-3.3	
	B. D. 2199	11.27	10.0	2	22.	B. D. 2423	11 19 7.83	+ 2 39 6.8	
	Yarn. 4192	11.20	10.1	2		Red.	+1.58	-8.3	
	ang.	9 58 11.19	+13 27 10.1		23.	Rüm. 3559	11 18 19.92	+ 2 46 56.9	1
	Red.	+1.62	-3.4			Lam. 3317	20.09	56.4	1
11.	A. N. Nr. 810	9 51 44.51	+13 50 15.9	1		B. D. 2421	20.03	57.1	2
	6 Y. Cat. 690	44.55	7.3	1		Par. Ann. XIV, XV	19.99	57.9	2
	ang.	9 51 44.53	+13 50 11.6			Yarn. 4761	19.86	57.4	3.2
	Red. März 3	+1.63	-3.0			ang.	11 18 19.97	+ 2 46 57.2	
	4	+1.63	-2.9			Red.	+1.59	-8.4	
	5	+1.64	-2.9		24.	Lam. 588	11 17 40.90	+ 2 58 12.9	
						Red.	+1.60	-8.4	

Nr.		α	δ	Gew.
25.	Lam. 593	11 ^h 18 ^m 56 ^s .65	+ 2°58' 46''2	
	Red. März 16	+1.60	-8.4	
	17	+1.60	-8.5	
26.	Lam. 1248 und } Suppl.	12 52 59.17	-10 52 24.3	1
	Sant. 1497	59.13	22.2	2
	ang.	12 52 59.14	-10 52 22.9	
	Red.	+1.71	-14.0	
27.	1850, 1851 Cambr.	12 50 26.81	-10 12	2.0
	Lam. 1239 u. Suppl.	26.86	18.0	1
	Sant. 1493	26.91	15.4	2
	ang.	12 50 26.86	-10 12 16.3	
	Red.	+1.70	-13.9	
28.	Lam. 1351 und } Suppl.	13 31 20.32	-13 57 17.2	1
	Sant. 1249	19.82	13.1	2
	ang.	13 31 19.99	-13 57 14.5	
	Red.	+1.79	-14.9	
29.	Lam. Suppl. 835	13 32 10...	-13 56 32.9	0.1
	Sant. 1250	10.69	29.0	2
	Par. Ann. XXIII	10.84	30.7	2
	ang.	13 32 10.77	-13 56 30.5	
	Red.	+1.79	-14.9	
30.	Sant. 1244	13 26 44.66	-13 36 9.8	
	Red.	+1.80	-15.1	
31.	A.-Oe. 13672	14 22 46.82	-20 24 10.2	
	Red.	+1.98	-15.9	
32.	B. D. VI, p. 354	14 24 59.94	-20 23 31.9	1
	Par. Ann. XVI, XVII	60.00	32.2	2
	ang.	14 24 59.98	-20 23 32.1	
	Red.	+1.99	-15.8	
33.	1849 Cambr.	14 20 33.47	-14 16	1.0
	Sant. 1313	33.56	20.6	2
	ang.	14 20 33.53	-14 16 20.6	
	Red.	+1.99	-14.9	
34.	Lam. 1884	15 31 40.65	-10 22 48.9	
	Red.	+2.18	-14.5	
35.	Struve 1715	15 20 42.20	-10 31 21.1	1
	Lam. 1833	42.21	26.5	1
	Sant. 1742	42.06	22.6	1
	Schj. 5477	42.08	23.9	1
	Par. Ann. XIV, XVII	42.18	24.8	1
	ang.	15 20 42.14	-10 31 24.0	
	Red.	+2.24	-14.6	
36.	A. N. Nr. 603	15 24 2.68	- 9 52	1.0
	Lam. 1850	2.81	52.1	

Nr.		α	δ	Gew.
	ang.	15 ^h 24 ^m 2 ^s .75	- 9°52' 52''1	
	Red.	+2.25	-14.5	
37.	A.-Oe. 1507 8/9	15 51 17.68	-17 22 59.2	
	Red.	+2.27	-14.5	
38.	A.-Oe. 1516 2/3	15 56 6.57	-17 55 12.9	
	Red.	+2.28	-14.4	
39.	Sant. 1334	14 41 31.36	-14 42 8.8	
	Red. Juni 1	+2.12	-15.6	
	2	+2.13	-15.6	
40.	Lam. 1824 u. Suppl.	15 18 47.68	-12 25 36.5	1
	Sant. 1739	47.52	37.7	1
	A. N. Nr. 1747	47.50	38.6	2
	" " " 2060	47.42	38.5	2
	ang.	15 18 47.51	-12 25 38.1	
	Red.	+2.25	-14.8	
41.	Lam. 1835 u. Suppl.	15 21 11 58	-13 4 43.3	1.0
	Sant. 1404	11.36	50.9	1
	ang.	15 21 11.47	-13 4 50.9	
	Red.	+2.26	-14.8	
42.	Lam. 2049	16 56 45.76	-12 40 59.8	1
	Sant. 1890	45.80	57.8	2
	ang.	16 56 45.79	-12 40 58.5	
	Red. Juni 21	+2.63	-11.4	
	22	+2.65	-11.3	
43.	B. D. 3424	17 5 34...	+ 6 34	
	Red.	+2.51	-9.1	
44.	B. D. VI, p. 357	16 57 47.67	-23 32 19.2	
	Red.	+2.85	-12.5	
45.	A.-Oe. 16149	16 50 27.21	-23 22 34.7	
	Red.	+2.83	-13.0	
46.	A.-Oe. 1595 7/8	16 40 12.69	-23 44 48.4	1
	I und III Wash. Z.	12.57	43.6	1
	Par. Ann. XIV	12.55	47.6	3
	ang.	16 40 12.58	-23 44 47.0	
	Red. Juli 28	+2.70	-14.0	
	29	+2.69	-14.0	
47.	A.-Oe. 17151	17 37 13.65	-24 37 35.4	
	Red.	+3.00	- 9.9	
48.	A.-Oe. 171 79/80	17 38 46.90	-24 5 14.7	1
	I und III Wash. Z.	46.82	14.1	1
	ang.	17 38 46.86	-24 5 14.4	
	Red.	+3.00	-9.9	
49.	A.-Oe. 2051 0/1	20 20 1.01	-17 30 26.8	1
	Lam. Suppl. 1188	0.98	27.3	1
	Wien. M. B.	1.23	27.6	2
	ang.	20 20 1.11	-17 30 27.3	
	Red. Juli 11	+3.06	+2.8	
	12	+3.07	+2.9	
	13	+3.09	+2.9	

Nr.		α	δ	Gew.
50.	A.-Oe. 2040 2/3	20 ^h 12 ^m 34 ^s 82	-17°53'40''0	1
	A. N. Nr. 1289	34.89	41.8	2
	Lam. 1154	34.80	42.8	1
	ang.	20 12 34.87	-17 53 41.6	
	Red.	+3.27	+2.8	
51.	A. N. Nr. 926	20 6 48.99	-18 3 0.2	1
	Lam. 1120	48.76	6.4	1
	III Wash. Z. 149 Nr. 24	48.55	5.4	1
	3 Wien. M.-B.	48.77	2.2	3
	ang.	20 6 48.77	-18 3 3.1	
	Red. Juli 26	+3.29	+2.4	
	27	+3.30	+2.4	
	28	+3.31	+2.4	
52.	A. N. Nr. 949	20 4 6.04	-18 11 15.9	1
	" " " 1547	6.37	17.6	2
	Yarn. 8712	6.15	18.4	2
	ang.	20 4 6.22	-18 11 17.6	
	Red. Juli 29	+3.32	+2.2	
	30	+3.33	+2.2	
53.	A.-Oe. 20256	20 0 59.06	-18 36 33.0	1
	Wien. Mirc.-Vgl.	58.99	34.1	1
	ang.	20 0 59.03	-18 36 33.5	
	Red.	+3.37	+2.0	
54.	Yarn. 8687	20 0 34.63	-18 16 8.7	
	Red.	+3.36	+2.0	
55.	A. N. Nr. 949	19 55 37.05	-18 31 5.5	1
	Yarn. 8645	36.71	5.2	1
	ang.	19 55 36.88	-18 31 5.3	
	Red. August 8, 9	+3.38	+1.6	
56.	II Wash. Z. 70 und 133	20 30 17.67	-26 51 36.0	2
	III Wash. Z. 107 Nr. 28	17.40	44.3	1
	ang.	20 30 17.58	-26 51 38.8	
	Red. Juli 27	+3.55	+4.4	
	28	+3.56	+4.4	
	29	+3.57	+4.4	
57.	Lam. 552	20 27 58.55	-22 14 50.5	
	Red.	+3.42	+4.2	
58.	A.-Oe. 19724	19 27 19.66	-18 26 28.5	
	Red.	+3.29	-0.9	
59.	B. D. 4726	23 22 38.48	+ 1 33 57.9	
	Red.	+3.21	+19.1	
60.	B. D. 4997	23 20 25.00	+ 1 0 40.9	1
	A. N. Nr. 1637	24.86	44.1	2
	Yarn. 10338	24.93	45.4	2
	ang.	23 20 24.92	+ 1 0 44.0	
	Red.	+3.23	+19.1	

Nr.		α	δ	Gew.
61.	Arm. 5181	23 ^h 20 ^m 20 ^s ...	+ 1°47'29''4	0.1
	Lam. 9192	20.48	22.1	1
	Par. Ann. XIV, XVI, XVIII	20.44	26.6	2.3
	Schj. 9658	20.40	27.6	2
	ang.	23 20 20.43	+ 1 47 26.6	
	Red.	+3.22	+19.1	
62.	1849 Cambr.	23 21 19.29	+ 1 11 55.8	1
	Lam. 9199	19.16	53.9	1
	B. D. 472	19.48	55.4	2
	Par. Ann. XIV, XVII	19.35	56.3	2
	A. N. Nr. 1432	19.49	55.9	2
	" " " 1655	19.45	59.2	2.
	Schj. 9669	19.32	58.0	2
	ang.	23 21 19.39	+ 1 11 56.6	
	Red.	+3.23	+19.1	
63.	Pol. Micr.-Vgl.	3 1 46.18	+17 32 9.2	
	Red.	+3.85	+23.1	
64.	A. N. Nr. 2007	2 36 54.26	+15 34 27.5	1
	" " " 2047	54.13	28.4	1
	ang.	2 36 54.20	+15 34 27.9	
	Red. November 3	+3.78	+24.1	
	4	+3.79	+24.1	
65.	B. D. M. 458	2 37 49...	+15 3	
	Red. November 3	+3.78	+24.1	
	4	+3.79	+24.1	

Bemerkungen zu dem vorstehenden Sternverzeichnisse.

- Stern 11. Ist B. D. 2185, der in A. N. Nr. 810 mit enthalten ist.
- " 36. Die Münchener Beobachtung nach Lamont's Bemerkung in Decl. um +33'3 geändert.
- " 41. Wenn die Differenz in Lam. Suppl. richtig angesetzt ist, so ist Lam. 1835 in Decl. um 10" verdruckt und ausserdem noch um etwa 10" zu nördlich, während die Decl. von Suppl. 1835 richtig ist.
- " 44. Kömmt auch in den Wash. Zones 171, 174 und 175 vor, in Zone 175 ist er unter Nr. 56 irrthümlich am Faden IV statt am Faden III angesetzt. In der mitgetheilten Position von Nr. 56 existirt kein Stern am Himmel.
- " 51. A. N. Nr. 926 ist ein Anschluss an A.-Oe. 2029 4/5, von welchem neuere Beobachtungen aus Berlin, Königsberg und Washington vorliegen, weshalb ich auch den Stern entsprechend geändert habe. Stern 51 wie 52 kommen auch in III Wash. Zone 149 vor,

die nach einer Vergleichung mtt A.-Oe. und Lamont in Declination einer ungefähren Correction von $-10''$ bedarf.

Stern 55. In Wash. Zone 204 Nr. 13 ist die R.-A. dieses Sternes um 1^m zu gross angesetzt.

Ich gebe noch einige gelegentlich bestimmte Sterne: ebenfalls auf 1875.0.

a B. D. 1797 $8^h 8^m 51^s 20$ $+11^\circ 6' 19'' 2$

Anschluss an Stern 1

b $10^m 5$ $15 30 32.39$ $-10 17 16.5$

Anschluss an Stern 34

c d Vergleichsterne 1 und 2 zur Wiener Beobachtung des Cometen 1874 II vom 7. Mai

$18^h 18^m 47^s 37$ $+32^\circ 44' 12'' 6$

$18 19 17.34$ $+32 44 54.2$

Anschluss an Lal. 33960

$18 17 23.21$ $+32 47 51.1$

e 10^m $20 27 38.44$ $-22 14 49.4$

Anschluss an Stern 57

f 9^m $19 26 11.76$ $-18 24 10.0$

Anschluss an Stern 58.

Sur le principe de la Moyenne arithmétique.

A paper upon this subject by Professor J. V. Schiaparelli appears in the Astr. Nachr. Nr. 2068, page 55. In that paper F ($a_1, a_2 \dots a_n$) represents the most probable result which can be deduced from the independent direct measures $a_1, a_2 \dots a_n$ which are supposed to be all equally probable or to have equal weights: the proof that F is the arithmetical mean is made to depend on three assumptions, which are regarded as axiomatic.

The third assumption is subsequently replaced by the following which I give in Professor Schiaparelli's words.

„On peut arriver aux équations (4) d'une manière beaucoup plus simple et plus directe. En effet, puisque toutes les quantités $a_1, a_2 \dots a_n$ sont regardées comme étant d'égale exactitude, si à l'une d'elles on attribue la petite variation ϵ , le changement qui en résulte dans F doit être toujours le même, quelle que soit la quantité affectée de la variation ϵ . Car si l'effet qui résulte pour F de l'introduction de ϵ dans a_1 , était plus grand que l'effet analogue qui résulterait de l'introduction de ϵ dans a_2 , on en conclurait, qu'une erreur de a_1 , pèse sur l'erreur du résultat F d'une manière plus considérable qu'une erreur égale de a_2 , ou bien, qu'on regarde des erreurs égales de a_1 et a_2 comme ayant une importance inégale sur le résultat: ou enfin, que a_1 et a_2 ne sont pas de même poids, contre la supposition“.

Although there is no reference to any paper of mine upon this subject, the principle here stated is identical with that from which I deduced the arithmetical mean nearly three years ago. My paper appears in the Monthly Notices of the Royal Astronomical Society of London, vol. XXXIII, Nr. 9, 1873 November. My statement of the assumption made is as follows:

„I assume as an axiom that since all the direct

measures are, by assumption, of equal value or equally good, the most probable value which can be adopted is that to which each individual measure equally contributes. To obtain the most probable value, therefore, we must combine all the independent measures in such a way, that an error which may exist in one of the measures, as x_1 , shall produce the same error in the „value adopted as the most probable“ as would be produced by the same error in x_2, x_3 or x_n .

This appears to me clear. The probable discordance of each measure from the true result is the same, and this being the case, no good reason can be assigned why we should adopt a value in which an existing error, or arbitrary change, in x_1 should produce either a greater or less error, or arbitrary change, in the adopted value than would be produced by the same error, or arbitrary change in x_2, x_3 or x_n . This condition of equal contribution of the independent measures to the most probable result appears to me necessary and sufficient“.

Starting with this principle, since $\varphi(x_1 + \epsilon), \varphi(x_2 + \epsilon) \dots \varphi(x_n + \epsilon)$ are all equal whatever be the value of ϵ , we see at once from a comparison of the coefficients of the different powers of ϵ in the separate expansions that the differential coefficients of φ with respect to the independent variables $x_1, x_2 \dots x_n$ must be equal, each to each. It is then shewn in my paper that the only function which will satisfy the necessary conditions is a function of the arithmetical mean. Finally, since the most probable value which can be deduced from two equally good direct measures is the mean, I shew by successive induction that the most probable value for any number of such direct measures, which must be a function of the arithmetical mean, is the arithmetical mean itself.