No.	BD.	α 1900	δ 1900	BD.	Obs.	Col.	Sp.	Date	Remarks
1247	+70°1314	23 ^h 14 ^m 8	+70°47'	7.8	8.2	OR	III!!	1897 Nov. 20	
1248	+69.1337	23 29.2	+69 49	8.4	7.8*	R	III!!	" " 20	Var? Note
1249	+55.3047	23 51.2	+56 10	8.7	8.7	OR	III!!	" " 20	Note

Notes.

Es. 972. First observed 1894 Sept. 2, mag. 8.6. There seems little doubt as to the star's variability. The spectrum is magnificent.

1184. First observed 1894 Sept. 2, 8.8, III?

Es.-Birm. I. 416. Spectrum of this and all the fainter stars observed this night very feeble on account of the strong light.

1204. Dec. 11, 7.7. The star should be watched for variation. The magnitudes in the AG. Cambr. Z. are:

1871 Sept. 9	8.0	1884 July 28	6.8
" 18	7.8	Aug. 2	7.0

1209. Perhaps var. Spectrum may be IV.

Es.-Birm. 649. Not found by Webb or Birmingham. My observations are:

1894 Sept. 10	9.4*	1894 Oct. 21	9.4*
" 26	9.3*	Dec. 8	9.5*

This year I was at once struck with the star's increased brilliancy which brought it well within the reach of the spectroscope; my observations this year are:

1897 Sept. 17	8.9*	1897 Nov. 29	9.4*
Oct. 29	9.3*	1898 Jan. 7	10.2*

The variation is certain.

911. This star was first observed 1893 Sept. 30 as 9.3 mag. and the place determined as:

$\alpha = 20^h 28^m 44^s$ $\delta = +54^\circ 27'$ (1855)

from BD. +54°2363 and BD. +54°2374. The place of the star was also marked on the chart at the time of observation. In 1897 Dec. 11, 14, I failed to see it, on Dec. 22 three small seen near the place and their positions roughly determined as follows:

1) $\alpha = 20^h 28^m 45^s$	$\delta = +54^\circ 28'5$	(1855)	Mag. 14.5
2) 28 45	27.2	"	15.0
3) 28 43	27.9	"	15.0

The stars were seen with difficulty.

1223. Follows NGC. 6939. The place from BD. +60°2131 and BD. +60°2133; the star is brighter than either of the BD. stars and may be variable. There is a comes 13 mag. $10'' \pm f$.

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1231. Lucida of large nebula (H. IV. 74). Spectrum type I, bright lines suspected. Nov. 29, mag. 6.8*; very carefully observed, not sure of bright lines. This star may be variable. It is AOe. 21613, 14, 15; mags. 8.9, 8, 8. AG. Christiania zones 1870 Nov. 1, 8.2; 1872 Nov. 4, 7.7; 1873 Oct. 1, 6.8 mag.

1236. Pair. BD. mags. 9.4, 9.2. Magnitudes now reversed. The red is the N. star. Possibly var.

1248. AOe. 25755, 8.9. AG. Christiania zones 1871 Nov. 3, 6.8; 1873 Nov. 8, 7.0.

1249. P. a cluster NGC. 7789.

The following 29 stars have been observed as III!:

+72°853, 891; +70°1036, 1055; +69°1009;
+68°945; +58°2059, 2500; +56°2525; +54°771;
+53°817, 962; +52°2437; +51°2512; +47°3174;
+46°512, 538, 2874; +45°291, 521; +40°3793;
+38°4166; +37°1982, 2883; +36°1765; +25°1722;
+30°2984; +25°2957; +20°2112.

The following 110 stars as III, or else II or II!:

+76°724; +73°843; +72°734, 854, 855, 857;
+70°1073, 1194, 1327; +69°1307;
+68°935, 1244, 1307, 1365; +67°254, 1442;
+61°1768, 1821, 1912, 1970;
+60°1846, 1959, 2045, 2046, 2060, 2099, 2300;
+59°2090; +58°2013, 2078, 2249, 2523;
+57°1986, 1993, 2262, 2312;
+56°2547, 2927, 2957, 2985, 3085; +55°3042;
+54°733, 757, 896, 3081; +53°766, 842, 2268, 2335;
+52°2301, 2350, 2376, 2629, 2746, 2750; +50°3306;
+48°1056, 2918, 2955, 2959; +47°2916, 3037;
+46°559, 2627, 2712; +45°432, 543, 581, 600, 621;
+44°3506; +39°3959;
+38°3324, 3575, 3725, 3772, 3780, 3798;
+37°1992, 1997, 2022, 3616; +36°1726, 1752;
+35°1669, 1731, 1741, 1808, 1819, 2822, 2847;
+34°1676; +33°1560, 1623, 1629, 2871;
+32°1577, 1584; +30°2982; +28°1599, 3160;
+26°2694; +25°2916; +24°3197, 3212;
+23°2918, 3070; +20°2109; +19°2119.

Observations of some Suspected Variable Stars.

By T. E. Espin.

The following list contains the observations of some of the stars suspected of variation, and which have been met with in the sweeps for stars with remarkable spectra. The first column contains the number as given in my lists

of »Stars with remarkable Spectra«, the second the BD. number, the third and fourth the approximate place for 1900, the fifth the BD. magnitude, the sixth the mean magnitude from all my observations, the seventh the highest and lowest residuals,

the eighth the limits of observation, the ninth the number of observations. The letter P in the last column is added when the observations show that an apparent rise or fall has been observed.

Es.	BD.	α 1900	δ 1900	BD.	Mean Mag.	Residuals H L		Years	No. of Obs.	Notes
832	Anon.	$0^h 16^m 8$	$+58^\circ 36'$	—	9.9	2	5	1894, 1894	13	
968	$+62^\circ 161$	0 45.3	$+62 23$	9.4	8.9	5	4	1894, 1898	12	P
837	$+60. 375$	1 47.1	$+60 37$	9.5	9.5	5	4	1893, 1897	19	P?
—	$+59. 490$	2 20.6	$+59 17$	9.4	8.6	2	1	1893, 1898	7	
—	$+58. 501$	2 32.3	$+59 10$	9.5	8.8	2	2	1887, 1895	8	Es.-Birm. 54
—	$+59. 568$	2 47.8	$+59 49$	9.0	8.3	0	1	1893, 1898	4	
976	$+54. 622$	2 49.6	$+54 15$	9.2	9.0	4	6	1894, 1895	10	P?
849	$+59. 594$	2 59.7	$+60 6$	9.5	8.5	4	3	1893, 1895	5	
308	$+57. 806$	4 22.4	$+57 11$	8.5	8.1	2	5	1888, 1898	5	
311	$+46. 893$	4 24.8	$+46 46$	9.1	8.2	1	3	1888, 1895	4	
161	$+25.1250$	6 17.8	$+25 4$	9.5	9.2	3	5	1886, 1895	7	
243	Anon.	6 20.3	$+19 8$	—	9.1	3	3	1887, 1895	2	
248	$+25.1643$	7 14.9	$+25 10$	9.2	8.4	4	6	1886, 1895	8	
274	$+56.1615$	12 35.8	$+56 23$	8.2	8.3	3	4	1888, 1895	9	P
811	$+54.1623$	13 53.3	$+53 57$	7.3	7.6	3	1	1893, 1895	5	
1000	$+52.2016$	16 56.7	$+52 27$	8.3	7.5	2	4	1894, 1894	4	
1004	$+57.1786$	17 35.4	$+57 48$	9.3	8.8	1	4	1894, 1895	8	
324	$+46.2347$	17 36.4	$+46 14$	8.3	7.6	1	2	1894, 1894	4	
873	$+34.3554$	19 23.4	$+34 39$	7.7	7.4	0	1	1894, 1894	3	
179	$+45.2906$	19 25.8	$+45 50$	8.6	8.3	3	3	1886, 1897	18	P
180	$+45.2913$	19 27.2	$+45 57$	7.0	7.4	4	1	1886, 1894	11	
884	$+26.3641$	19 36.8	$+27 1$	9.0	8.8	0	0	1894, 1895	5	
885	$+26.3645$	19 37.9	$+26 24$	9.0	8.7	2	1	1894, 1895	5	
1021	Anon.	19 42.9	$+15 48$	—	9.2	4	3	1894, 1895	6	
1022	$+24.3902$	19 46.3	$+24 41$	9.2	8.9	3	1	1893, 1897	10	
415	Anon.	19 46.7	$+14 45$	—	8.8	0	1	1894, 1895	7	
—	$+43.3425$	19 54.0	$+43 59$	8.2	7.6	2	3	1887, 1897	16	Es.-Birm. 634
895	$+25.4126$	20 5.9	$+26 0$	9.3	8.8	3	3	1893, 1894	7	
—	$+15.4172$	20 24.5	$+15 56$	8.3	8.1	3	4	1894, 1894	7	P. Es.-Birm. 672
135	$+56.2793$	22 26.5	$+56 29$	8.4	7.9	2	4	1897, 1898	5	P
950	$+60.2432$	22 40.4	$+61 12$	8.9	8.3	2	4	1893, 1898	9	

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Pianeti minori e comete
osservati al 15.5 inch. di Cooke, in Teramo.

1897	T.m.Teramo	$\Delta\alpha$	$\Delta\delta$	Cf.	α app.	$\log p.\Delta$	δ app.	$\log p.\Delta$	Red. ad l. app.	*
(248) Lameia.										
Lugl. 19	$12^h 17^m 58^s$	$+0^m 15^s 59$	$-1' 9'' 1$	3.3	$20^h 5^m 7^s 44$	7.981	$-14^\circ 38' 31'' 7$	0.870	$+4^s 26 + 8'' 4$	1
20	$10 49 36$	$+0 9.34$	$-5 26.3$	3.3	$20 4 13.44$	9.181 _n	$-14 40 2.2$	0.865	$+4.27 + 8.4$	2
21	$10 44 31$	$+0 9.31$	$+1 7.6$	3.3	$20 3 15.66$	9.182 _n	$-14 41 43.3$	0.865	$+4.29 + 8.4$	3
(184) Dejopeja.										
Lugl. 22	$12 1 7$	$+0 20.93$	$-6 30.9$	3.3	$21 35 24.00$	9.238 _n	$-14 57 1.4$	0.864	$+4.11 + 16.8$	5
26	$12 17 40$	$-2 28.46$	$+0 21.4$	11.3	$21 32 42.37$	9.032 _n	$-15 9 16.3$	0.870	$+4.20 + 17.1$	6
28	$11 14 5$	$-1 19.07$	$+6 41.2$	14.3	$21 31 20.32$	9.318 _n	$-15 15 28.5$	0.862	$+4.24 + 17.2$	7
(186) Celuta.										
Agos. 19	$12 7 33$	$+0 8.38$	$-1 9.7$	3.3	$22 47 2.63$	8.985 _n	$-27 56 44.2$	0.917	$+4.65 + 24.7$	8
20	$12 0 14$	$-1 0.47$	$-0 49.9$	11.3	$22 45 53.79$	9.005 _n	$-27 56 24.4$	0.917	$+4.66 + 24.7$	8
21	$11 42 38$	$-2 9.71$	$-0 19.9$	15.4	$22 44 44.57$	9.105 _n	$-27 55 54.5$	0.915	$+4.68 + 24.6$	8