

ASTRONOMISCHE NACHRICHTEN.

N^o 3232.

Band 135.

16.

Stars with remarkable Spectra.

By *T. E. Espin.*

In the following communication the numbers are continued from A. N. 3200. The mirrors of the 17 $\frac{1}{4}$ in. were resilvered in the summer, and the telescope was used in the autumn for a careful survey of the red region in Cygnus. The exceptionally fine weather in the autumn caused a large amount of work to be got through. The following contains:

1) List of 167 stars the greater part of which have not been observed before. Many of them are not in the BD.,

and several are probably variable. In the work of comparing the chart with the heavens various cases of mis-identifying have been detected and are herewith corrected.

2) A list of 206 stars which were observed as III!

3) A list of 136 stars which may be III, but many of them are probably only II.

The places of stars marked »Anonymous« have been carefully differentiated from the nearest stars in the BD. The positions are brought up approximately to 1900.

No.	BD. etc.	α 1900	δ 1900	BD.	Obs.	Col.	Sp.	1893	Remarks
✓ —	+49° 41	o ^h 12 ^m 2	+49° 44'	9.0	8.8	RR	IV!	Dec. 11	Discovered at Hary. Coll.
✓ 832	Anonym.	o 16.8	+58 36	—	10	RR	B	Oct. 8	III? Var.?
✓ 833	+47. 113	o 23.5	+47 51	6.8	7.4	OR	III!!	Dec. 9	
✓ 834	+48. 183	o 31.2	+48 24	8.2	8.3	R	III!!!	» 9	
✓ 289?	+52. 241	o 57.3	+52 36	7.5	8.0	OR'	III!!	» 1	See Note.
✓ 37	+60. 327	1 38.8	+60 32	8.5	8.5	OR'	III	Oct. 11	See Note.
✓ 38	+60. 335	1 39.2	+60 29	9.4	9.0	OR	III!	» 11	See Note.
✓ 835	+59. 319	1 40.2	+59 52	9.0	8.7	OR	III!!	» 11	
✓ 836	+57. 403	1 43.9	+58 2	8.8	9.0	OR	III!!	Dec. 11	
✓ 292?	+53. 398	1 44.0	+53 14	8.5	8.0	OR	III!!!	Oct. 19	See Note.
✓ 837	+60. 375	1 47.1	+60 37	9.5	9.0	R	B	» 11	See Note.
✓ 838	+50. 401	1 50.5	+50 45	9.2	8.7	R	III!!	Dec. 6	
✓ 839	+61. 366	1 54.7	+61 25	7.3	7.7	OR	III!!	» 6	
✓ 840	+58. 389	2 3.0	+58 28	8.4	8.5	OR	III!!	» 11	
✓ 841	+58. 390	2 3.9	+58 32	9.3	9.0	R	III!!	» 11	
✓ 842	+48. 616	2 4.6	+48 28	9.4	8.9	R	III!!!	» 9	
✓ 843	+57. 524	2 8.1	+57 41	9.1	8.7	OR	III!!	» 11	
✓ —	T Persei	2 12.2	+58 30	var.	8.6	R	III!!	» 11	
✓ 844	+42. 563	2 32.5	+42 48	8.1	8.5	OR	III!!	» 30	
✓ 845	+49. 755	2 37.8	+49 47	8.7	8.4	OR	III!!	» 9	
✓ 846	Anonym.	2 42.3	+62 1	—	9.1	OR	B?	» 6	III?
✓ 847	+42. 683	2 55.2	+42 54	8.8	8.7	OR	III!!	» 30	
✓ 848	Anonym.	2 56.3	+59 25	—	9.5	R	B	» 1	III?
✓ 849	+59. 594	2 59.7	+60 6	9.5	8.6	RR	B	» 1	III? Var.?
✓ 850	+60. 753	3 42.6	+60 14	8.7	8.8	R	III!!	» 1	
✓ 393	+56. 898	4 8.7	+57 0	8.7	8.5	R'	III!	» 1	See Note.
✓ 552	+57. 829	4 32.4	+57 28	9.2	9.2	R'	—	» 1	See Note.
✓ —	—	18 4.0	—15 18	8.3	8.5	R	III!	Aug. 19	Es.-Birm. 513.
✓ —	—	18 7.1	—18 58	—	9.0	R	III?	» 19	Es.-Birm. 518.
✓ —	—	18 7.8	—19 16	9.5	8.7	R	IV?	» 19	Es.-Birm. 519.
✓ —	—	18 7.9	—19 7	—	9.0	R	IV?	» 19	Es.-Birm. 520.
✓ 851	+34.3200	18 21.4	+34 59	8.2	8.5	R	B	» 12	See Note.

No.	BD. etc.	α 1900	δ 1900	BD.	Obs.	Col.	Sp.	1893	Remarks
✓ —	—	18 ^h 27 ^m 0	— 14° 56'	5.8	6.5	OR	III	Aug. 19	Es.-Birm. 542.
✓ —	—	18 33.2	— 13 52	8.2	8.3	R	III !!!	» 19	Es.-Birm. 551.
✓ 852	+32.3160	18 33.6	+33 1	9.3	9.2	R	III !!!	» 12	
✓ 853	+40.3449	18 36.7	+40 14	8.4	8.2	OR	III !!!	» 8	
✓ 854	+36.3235	18 38.3	+36 23	9.0	9.2	R	III !!	Sept. 16	
✓ —	—	18 39.3	— 6 44	8.8	8.5	R'	III !!	Aug. 19	Es.-Birm. 560.
✓ 855	+43.3072	18 43.4	+43 27	7.0	8.3	OR	III !	Dec. 2	
✓ —	—	18 44.3	— 6 1	6.8	7.0	OR	III !	Aug. 19	Es.-Birm. 569.
✓ 856	— 6.4938	18 46.6	— 6 2	9.2	8.8	RR	B	» 19	
✓ 857	+33.3242	18 48.8	+33 24	9.1	9.1	RR	III !!!	» 9	
✓ 858	+33.3252	18 50.8	+33 45	9.1	9.0	OR'	III !!	» 9	
✓ 859	+39.3578	18 52.1	+39 41	9.1	8.7	R	B	» 8	See Note.
✓ 860	+36.3336	18 53.0	+36 50	9.5	9.5	R	III !!	Sept. 16	
✓ 861	+38.3376	18 54.7	+38 19	9.1	8.8	R	B	Aug. 8	See Note.
✓ 862	+40.3555	18 57.1	+40 33	6.9	6.9	OR	III !!	Oct. 6	
✓ 863	+39.3630	19 0.7	+39 58	7.5	7.5	OR'	III !!	Sept. 27	
✓ 864	Anonym.	19 7.7	+26 30	—	9.0	OR'	III !	Aug. 21	
✓ 865	+39.3668	19 7.6	+39 42	7.8	7.7	OR	III !	Sept. 27	See Note.
✓ 866	+40.3624	19 9.1	+41 4	7.2	7.4	OR	III !!	Oct. 6	
✓ 867	+26.3486	19 9.1	+26 36	9.5	8.6	R	III !!!	Aug. 21	See Note.
✓ 868	Anonym.	19 9.1	+25 51	—	—	R	B	» 21	Var.; see Note.
✓ —	Var.	19 9.6	+49 35	—	8.8	R	III !!	Dec. 14	See Note.
✓ 869	+27.3340	19 15.0	+27 5	6.7	6.7	OR	III !	Aug. 19	See Note.
✓ 870	+26.3523	19 15.8	+27 0	9.4	9.2	R	III !!!	» 14	
✓ 871	+50.2771	19 16.1	+50 41	8.0	8.5	OR	III !!	Dec. 14	
✓ 872	Anonym.	19 16.9	+37 41	—	9.0	RR	IV	Sept. 16	Var.; see Note.
✓ 873	+34.3554	19 23.4	+34 39	7.7	8.5	OR'	III !	» 19	Var?
✓ 874	+33.3461	19 24.0	+34 1	8.9	9.0	OR	III !!	» 19	
✓ 875	Anonym.	19 26.6	+26 26	—	9.1	OR	III !!	Aug. 21	
✓ 876	+29.3623	19 27.1	+29 29	8.5	8.7	R	III !	» 12	See Note.
✓ 877	+31.3643	19 27.9	+31 39	8.2	8.9	R	III !!	» 14	
✓ 878	+43.3268	19 28.0	+43 25	9.0	9.2	R	B	Dec. 2	See Note.
✓ 879	Anonym.	19 28.7	+26 21	—	9.2	R	III !!!	Aug. 21	See Note.
✓ 880	+36.3616	19 31.6	+36 25	9.5	9.5	R	B	Sept. 16	See Note.
✓ 881	+21.3864	19 35.3	+21 47	8.5	8.5	R	III !!	Oct. 8	
✓ 882	+20.4216	19 35.4	+20 10	8.4	8.5	R	III !!	» 8	
✓ 883	+26.3639	19 36.6	+26 6	9.2	9.0	OR	III !!	Aug. 21	
✓ 884	+26.3641	19 36.8	+27 1	9.0	8.3	R	III !!	» 22	Var.?
✓ 885	+26.3645	19 37.9	+26 24	9.0	8.3	OR	III !!	» 21	Var.?
✓ 886	+46.2755	19 38.6	+47 4	7.5	7.5	OR	III !!	Dec. 14	
✓ 103	+35.3784	19 41.8	+35 50	9.1	9.0	R	—	Oct. 5	See Note.
✓ 887	+21.3909	19 43.3	+21 30	7.0	8.0	OR	III !	» 8	Var.?
✓ 888	+33.3596	19 43.6	+33 14	9.4	9.5	R	B	Aug. 14	See Note.
✓ 889	+27.3540	19 48.0	+27 11	9.1	9.0	R	B	» 22	See Note.
✓ 890	+34.3766	19 48.7	+34 21	9.1	9.1	OR	III !!!	Sept. 19	
✓ 891	+41.3542	19 53.3	+41 36	9.0	8.7	R	III !!	Dec. 9	See Note.
✓ 892	+44.3302	19 55.0	+44 50	8.7	8.4	OR	III !	» 4	
✓ 893	Anonym.	20 5.1	+35 31	—	10	R	IV?	Aug. 14	
✓ 894	+35.3989	20 5.2	+35 57	9.5	9.3	R	B	» 22	See Note.
✓ 895	+25.4126	20 5.9	+26 0	9.3	8.5	OR	III !!!	Oct. 11	Var.?
✓ —	—	20 7.3	+35 48	—	11	RR	IV !	Sept. 16	Es.-Birm. 654.
✓ 896	+40.4054	20 7.6	+40 39	8.0	9.0	OR'	III	Oct. 6	Var.?
✓ 897	+26.3824	20 7.6	+26 17	9.5	9.0	R	III !!	Aug 22	
✓ 898	+27.3642	20 7.6	+27 9	8.7	8.0	R'	III !!	» 22	
✓ 899	+34.3913	20 8.1	+34 37	8.7	—	OR'	III !	Sept. 19	
✓ 900	Anonym.	20 12.4	+37 34	—	10	R	IV?	Aug. 22	

g2.
Handled 99977
Handled 99983
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No.	BD. etc.	α 1900	δ 1900	BD.	Obs.	Col.	Sp.	1893	Remarks
✓901	Anonym.	20 ^h 13 ^m .1	+37° 9'	—	9.5	R'	B	Aug. 19	III?
✓902	Anonym.	20 13.3	+36 36	—	11.5	R	IV?	Sept. 16	
✓903	Anonym.	20 15.1	+40 28	—	9.1	OR	B?	Oct. 6	III?
✓458	—	20 17.0	+35 16	9.5	9.2	—	IV?	Sept. 16	
✓904	Anonym.	20 17.2	+25 59	—	9.1	R	III!!	Aug. 22	
✓905	+26°3883	20 18.6	+26 50	9.0	8.6	R	B	» 22	See Note.
✓906	Anonym.	20 19.4	+26 9	—	9.1	R	III!!	» 22	
✓907	+27.3714	20 19.5	+27 14	9.5	8.8	R	III!!	» 22	Var.?
✓908	Anonym.	20 23.1	+37 52	—	9.0	R	B	» 24	
✓909	+38.4098	20 24.8	+38 31	9.3	8.8	R	III!!	» 24	
✓910	+28.3787	20 28.7	+28 42	8.2	8.0	OR'	III!	» 22	See Note.
✓911	Anonym.	20 30.0	+54 37	—	9.3	R	B	Sept. 30	
✓912	+53.2440	20 33.3	+54 0	8.5	8.6	OR	III!!	» 16	
✓913	+54.2398	20 38.3	+55 4	9.2	9.2	OR	B	» 30	See Note.
✓—	RR Cygni	20 42.6	+44 30	—	var.	R	III!!	» 9	
✓914	+35.4262	20 42.9	+35 48	8.8	8.7	OR	III!!	Oct. 5	
✓915	+38.4244	20 46.0	+38 11	8.4	8.5	OR	III!!	Aug. 24	See Note.
✓—	Var.	20 47.4	+45 50	—	8.7	R	III	Dec. 9	Wolf Var.
✓916	Anonym.	20 48.5	+46 57	—	9.1	R	B	Aug. 24	See Note, var.
✓917	+50.3217	20 48.9	+50 56	9.4	9.0	R	III!!	Dec. 1	
✓918	Anonym.	20 50.9	+44 53	—	9.7	R	B	Aug. 24	
✓919	+50.3235	20 54.2	+50 41	9.3	9.1	R	B	Oct. 5	See Note.
✓920	+50.3265	21 4.0	+50 29	9.4	9.2	R	B	Sept. 11	See Note.
✓921	+53.2564	21 8.0	+53 28	9.3	9.1	R	III!!	» 16	
✓922	+53.2584	21 12.1	+53 34	9.2	9.0	R	III!!!	» 16	
✓923	Anonym.	21 14.4	+51 49	—	9.5	R	IV?	» 14	
✓924	+60.2213	21 15.0	+60 27	9.0	9.0	OR'	III!!	Oct. 11	See Note.
✓925	+53.2626	21 23.5	+53 28	9.4	9.3	OR	B	Sept. 16	III?
✓926	+47.3429	21 26.1	+48 7	9.5	9.0	R	B	» 19	See Note.
✓927	+55.2597	21 27.5	+55 27	8.4	7.0	OR'	II	» 14	See Note.
✓928	+60.2267	21 32.5	+60 28	9.5	9.2	R	B	Oct. 11	See Note.
✓929	+54.2603	21 38.8	+54 22	9.1	8.8	R	III!!	Sept. 14	
✓—	—	21 40.5	+54 9	—	—	—	—	» 16	Es.-Birm. 715. See Note.
✓—	—	21 40.6	+53 15	—	9.2	R	III!!	» 16	Es.-Birm. 716.
✓930	Anonym.	21 42.9	+52 52	—	8.6	OR'	III?	» 16	
✓931	Anonym.	21 43.0	+52 5	—	9.5	RR	IV	» 14	
✓131	—	21 43.1	+57 36	7.5	8.2	OR	III!!	» 30	
✓932	+52.3036	21 43.6	+52 13	9.3	9.0	R	IV?	» 14	
✓933	Anonym.	21 46.7	+55 52	—	8.7	R	III!!!	» 14	
✓—	—	21 51.5	+50 1	—	8.7	RR	B	» 19	Es.-Birm. 720. See Note
✓132	+62.1999	21 54.4	+62 47	8.8	8.6	OR	III!!	Oct. 16	See Note.
✓934	+61.2235	21 58.3	+61 41	9.3	9.2	OR	B	» 8	See Note.
✓935	+50.3595	22 6.7	+50 22	8.7	9.0	OR'	III!!	Sept. 19	
✓936	+57.2487	22 10.5	+57 31	9.1	9.0	RR	III!!!	Oct. 6	Fine object.
✓937	+53.2834	22 12.5	+53 32	9.0	8.8	R	III!!	Sept. 11	
✓938	+52.3163	22 12.6	+52 27	9.2	9.0	OR	III!!	» 19	
✓939	+57.2493	22 12.6	+57 29	8.2	8.5	OR	III!!	Oct. 6	
✓940	+44.4106	22 17.3	+45 9	8.9	8.2	OR	III!!!	Dec. 9	
✓941	+50.3680	22 17.6	+50 57	8.4	8.3	OR	III!!	Sept. 11	
✓942	+65.1758	22 18.1	+65 48	8.5	8.6	R	B	Oct. 16	III? Clouds.
✓943	Anonym.	22 19.0	+56 45	—	9.0	R	B	Sept. 30	See Note.
✓944	+59.2516	22 21.1	+59 43	8.3	8.2	OR	III!!	Oct. 6	
✓945	Anonym.	22 23.7	+52 44	—	9.2	R	B	Sept. 19	III?
✓946	+51.3383	22 23.9	+51 48	9.4	9.2	R	B	» 19	
✓947	+49.3864	22 24.7	+49 38	9.0	8.7	OR	III!!!	» 11	
✓948	+65.1770	22 25.0	+65 56	9.0	9.0	R	B	Oct. 16	See Note.

No.	BD. etc.	α 1900	δ 1900	BD.	Obs.	Col.	Sp.	1893	Remarks
✓ 135	+56°2793	22 ^h 26 ^m .4	+56° 29'	8.4	8.5	OR	III!	Oct. 5	
✓ 949	+59.2557	22 37.4	+59 45	9.5	9.3	R	B	» 6	III?
✓ 950	+60.2432	22 40.4	+61 12	8.9	8.7	RR	IV!!	» 8	
✓ 951	+46.3815	22 40.9	+46 41	7.7	8.3	R'	III!!	Dec. 1	
✓ 952	+52.3290	22 42.3	+52 43	9.1	8.7	OR	III!!	Sept. 19	
✓ —	+54.2863	22 43.6	+54 38	9.5	—	R	III!!	Oct. 8	Es.-Birm. 735. Var.? See Note.
✓ 953	Anonym.	22 46.4	+54 3	—	9.5	R	B	» 8	III?
✓ 954	+45.4117	22 56.3	+45 59	8.8	8.4	R	III!!!	Dec. 11	
✓ 955	+45.4121	22 57.2	+45 21	9.5	8.7	RR	IV!	» 9	Var.?
✓ 956	+60.2469	22 57.3	+61 2	9.0	8.6	R'	III!!!	Oct. 8	
✓ 139	+57.2675	22 58.2	+57 42	8.4	8.5	OR	III	» 5	
✓ —	—	23 7.0	+52 21	9.1	9.0	R	III!!!	» 8	Es.-Birm. 723 a. See Note.
✓ 957	+58.2583	23 18.0	+58 46	8.8	9.0	R	III!!!	» 5	
✓ 958	+65.1884	23 20.2	+65 58	9.3	9.0	RR	B	» 16	III? Clouds.
✓ 959	+60.2537	23 20.7	+60 49	9.2	8.8	OR	III!!	» 8	
✓ 336	+52.3440	23 20.9	+52 27	7.0	7.3	OR'	III!	» 8	See Note.
✓ 141	+48.4051	23 22.2	+48 58	9.3	8.8	R	IV!!	Dec. 1	See Note.
✓ 960	+50.4056	23 24.8	+51 8	8.0	8.0	R'	III!!	Oct. 8	
✓ 961	+58.2602	23 25.5	+58 51	8.4	8.5	OR	III!!	» 5	
✓ 962	+57.2760	23 30.3	+58 1	9.5	9.1	R	B	» 5	III?
✓ 963	+45.4285	23 32.8	+45 33	8.5	8.2	OR	III!!	Dec. 9	
✓ 964	+46.4188	23 45.9	+46 57	8.5	9.0	R	III!!!	» 1	See Note.
✓ 965	+65.1964	23 49.7	+65 53	8.7	8.5	OR	III!!	Oct. 16	

Notes.

289, 292. Probably hitherto wrongly identified.
 37, 38. The spectrum not observed before.
 832. See M. N. LIV p. 325.
 837. I think III but may be IV.
 393. Hitherto wrongly identified.
 552 is the same star as 394, through 394 Declination being read 30' too small.
 851. Haze makes observation doubtful.
 859. III? Clouds.
 861. Very faint. Suspected to have deep bands. III?
 865. Doubtful in moonlight.
 867. Oct. 11 Mag. 9.0. Var.? See G. N. 194-297
 868. A new variable, probably III. For observations see M. N. Vol. LIV p. 100.
 Var. 19^h 9^m 6 +49° 35'. A star announced as var. by Deichmüller A. N. 3191.
 869. This is probably the missing star Es.-Birm. 596. The places of the two stars for 1900 are:
 Es.-Birm. 596 19^h 15^m 13^s +27° 4'3
 No. 869 19 15 3 +27 5.0
 872. A new variable of type IV. The spectrum is remarkable from the intensity and size of a band (No. 9 Dunér). The magnitude 1894 April 10 was 8.5.
 876. A 10 mag. blue near.
 878. The bands seem large. Believed III.
 879, 880. The same remark applies to these stars.
 103. Spectrum not observed before.
 888. Faint, believed III.
 889. P of a triangle. Neighbouring stars interfere.

891. Faint but pretty certain. A comes 11 mag. 20" ±.
 894. Bands, III?
 905. One of a triangle, two blue.
 910. Neighbouring star interferes.
 913. Suspected to be type IV, but too faint in moonlight.
 915. Comes 10 mag. blue 45" ± north.
 916. New variable probably type III. See M. N. Vol. LIV p. 100.
 919, 920, 924. Bands seem large; faint. III?
 926. Possibly type IV.
 927. Helsingfors AG. Zones: 1869 Sept. 1 7^m 5, Sept. 2 7^m 7. May be variable. I observed it again Sept. 16 Mag. 7.7. The same Sept. 30.
 928. Faint, but bands seem deep. Possibly type IV. Es.-Birm. 715. Not seen. My observations of Es.-Birm. 715, 716 in Red Star Catalogue p. 161 should be transposed. Es.-Birm. 720. IV type but peculiar, the intensity of Band 9 is extraordinary.
 132. Wrongly identified before this.
 934. Faint. III?
 943. Between BD. +56°2763 and 2765.
 948. Perhaps IV. Clouds.
 Es.-Birm. 735. Hitherto wrongly identified. See M. N. LIV p. 102. Var?
 Es.-Birm. 723 a. Wrongly identified hitherto.
 336. Same remark applies.
 141. Spectrum not observed before.
 964. Discontinuous spectrum.

The following 206 stars were observed as III.

+65°24; +64°1596; +63°1640, 1759.
 +62°1862, 2010, 2030, 2079.
 +61°284, 369, 2298.
 +60°299, 695, 2177, 2225.
 +59°267, 490, 568, 2477, 2485, 2583, 2595, 2698.
 +58°94, 363, 373, 2162, 2387, 2390, 2464, 2495, 2596,
 2611.
 +57°77, 102, 145, 404, 439, 540, 2419, 2443.
 +56°804, 2787, 2788.
 +55°142, 2601.
 +54°253, 2328, 2585, 2698, 2705, 2875.
 +53°94, 2456, 2467, 2832, 3001.
 +52°400, 3144, 3181, 3237, 3281, 3291, 3302, 3349.
 +51°44, 291, 580, 2301, 3056, 3309, 3437.
 +50°28, 191, 240, 400, 3309, 3694, 3742, 3764.
 +49°2065, 2976, 3505, 3694, 3959.
 +48°302, 355, 448, 558, 663, 3392, 3394, 3503.
 +47°141, 404, 3381, 4364.
 +46°124, 2904, 3244, 3347, 4081.
 +45°4, 24, 2974, 3740, 4246, 4311.
 +44°3275, 3284, 3290.
 +43°3279.
 +42°792, 3466, 3563, 3566.
 +41°3135, 3225, 3481, 3544.

+40°3497, 3526, 3615, 3629, 3640, 3668, 3841, 3866,
 3970, 4048, 4057, 4113, 4135, 4220.
 +39°3523, 3620.
 +38°3019, 3025, 3093, 3217.
 +37°3422.
 +36°3432, 3513, 3668, 3680, 3703, 3883, 3886, 3892,
 4057.
 +35°3639, 3688, 3715, 3869.
 +34°3226, 3288, 3350, 3648, 3681, 3830, 3846, 3924,
 3926.
 +33°3122, 3129, 3216, 3249.
 +32°3190, 3250.
 +31°3344, 3473.
 +30°3564.
 +29°3392, 3566, 3685, 4031.
 +28°3356.
 +27°3414, 3417, 3755, 3775.
 +26°3475, 3479, 3490, 3536, 3671, 3679, 3767, 3768,
 3811, 3823, 3852, 3874, 3883.
 +25°3838, 3876, 4050, 4178.
 +24°3750, 3978, 4045, 4208.
 +22°3871.
 +21°3863, 3987, 4036.

873 The following 136 stars are III or II.

+66°1837; +65°1959; +62°2018; +61°2131.
 +60°2203, 2269.
 +59°285, 373, 731, 2422, 2438, 2817.
 +58°170, 392, 2399, 2510.
 +57°151, 543.
 +56°223, 2799.
 +55°24.
 +54°66, 116, 2324, 2347, 2456, 2484, 2571.
 +53°2514, 2814, 2999.
 +52°334, 400, 2935, 2969, 3087, 3110, 3149.
 +51°14, 112, 335, 513, 3329.
 +50°16, 195, 3267.
 +49°73, 3476, 3651.
 +48°370, 578, 626.
 +47°23, 3357.
 +46°3874.
 +45°3022, 3071, 3659, 4208.
 +44°3335.
 +43°723.
 +42°3367, 3419.

+40°3365, 3366, 3644, 3664, 3670, 3773, 3914.
 +39°3402, 3419, 3784.
 +38°3087, 3095, 3157, 3160, 3219, 3276, 3362, 3509,
 3518.
 +37°3180, 3193, 3279, 3560.
 +36°3391, 3633, 3742.
 +35°3388, 3572, 3578, 3681, 3920, 3978.
 +34°3232, 3238, 3296, 3336, 3588, 3811, 3832, 3888,
 3966.
 +33°3156, 3209, 3246, 3597.
 +32°3171, 3275, 3321, 3334, 3573.
 +31°3631, 3648, 3678, 3681, 4129.
 +30°3621, 3708.
 +29°3562, 3587, 3588, 3590, 3628.
 +27°3437.
 +26°3478, 3485, 3684, 3740, 3768.
 +25°3877.
 +24°3765, 3768.
 +23°3813.
 +20°4406.

Tow Law, Darlington, England, 1894 April 27.

T. E. Espin.

Notiz betreffend die Gründung einer Sternwarte zu Heidelberg.

Es wird die Leser interessiren zu erfahren, dass nunmehr die Gründung einer Universitätssternwarte zu Heidelberg gesichert ist. Die bisherige Sternwarte in Karlsruhe wird aufgelöst und ihre Instrumente werden der Astrometrischen Abtheilung der neuen Sternwarte zugewiesen; neben derselben wird eine Astrophysikalische Abtheilung eingerichtet. Das neue Institut wird auf städtischem Terrain, auf dem Geisberge, ca. 270 Meter über der Rheinebene, 35 Minuten von der Universität entfernt, errichtet werden.

Kr.