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OBSERVATIONS OF 2 CSV-STARS ON SKY PATROL PLATES

CSV 188

CSV 188 = 245.1937 = DO 25181 (M6) = SVS 783 was discovered by P.P. Parenago (Perem. Zvezdy, Tom.5.158.1938) in 1937. The observed amplitude was $1^m.4$ ($10^m.8 - 12^m.2$ ph).

On 88 plates obtained with the Hartha Sky Patrol Camera (JD 2439024-2442036) I examined the star. Its brightness varies in long waves unperiodically. Temporary quick fluctuations are present. So I classify it as Lb - type. My observed amplitude is $1^m.0$ ($10^m.8 - 11^m.8$ ph). CSV 188 is a very red star.

CSV 5990

CSV 5990 = GR 75 was discovered by Romano, G. (Oss.priv.Treviso Pubbl. No. 20. 1960). The discoverer classified the star as an eclipsing binary ($10^m.1 - 11^m.1$ ph) and published 2 minima. Weber, R. confirmed the light-variations (Oss. priv. Treviso Pubbl. No.23 1960) and published observations containing 2 minima, too.

I examined the star on 103 sky patrol plates of the Hartha Observatory (JD.2439024-2442036). It turned out CSV 5990 was, in fact, a bright eclipsing binary with EW-type. The elements are:

$$\text{Min. (hel.)} = \text{JD. } 2439026.542 + 0^d.909026.E \quad (\text{EW})$$

$$(\text{10}^m.43 - \text{11}^m.13 / \text{11}^m.02 \text{ ph})$$

Observed Minima

JD. (hel.)24...	Epoch	O - C	m	Observer
32477.40	-7204.5	- 0 ^d .06	11.0	Weber, R. (Min. II)
503.39	-7176	+ 02	11.0	"
38843.33	- 201.5	- 04	11.2	Romano, G. (Min. II)
950.26	- 84	+ 08	10.8	"
39026.537	0	- 005	11.25	Busch, H.
027.451	+ 1	000	11.1	"
053.364	29.5	+ 005	11.2	" (Min. II)
057.457	34	+ 007	11.25	"
058.354	35	- 005	11.1	"
088.364	68	+ 007	11.2	"
41595.458	2826	+ 008	11.2	"
596.354	2827	- 006	11.1	"
602.274	2833.5	+ 002	11.1	" (Min. II)
42036.312	3311	- 014	11.2	"

Further particulars will be published in "Mitt. der Bruno-H.-Bürgel-Sternwarte" Hartha, Heft 7.

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OBSERVATIONS OF 6 CSV-STARS ON SKY PATROL PLATES

CSV 4390

CSV 4390 = SVS 866 was discovered by Fadeeva, S. (Perem. Zvezdy, Tom 5. 206.1938) in 1937, who found slow variations with amplitude 0^m8 ($11^m7 - 12^m5$ ph).

I examined the star on 93 sky patrol plates of Hartha Observatory (JD. 2438882-2441570) and confirmed Fadeeva's observations. The star is showing slow light-variations between $11^m8 - 12^m6$ ph. The comparison stars utilized by Fadeeva were taken over.

CSV 5848

CSV 5848 = BV 293 = BD 51^o0042 (9.2) = HD 1519 (Ma) was discovered by Strohmeier and Knigge in 1960; $10^m5 - 11^m0$ ph. (Veröff. Sternw. Bamberg Bd.5) .

On 173 sky patrol plates of Hartha Observatory I examined the light-variations (JD. 2436985 - 2442036). CSV 5848 is a star of Lb-type. The light-variations are between 10^m50 and 11^m40 ph.

CSV 5849

CSV 5849 = GR 28 was discovered by Romano, G. in 1958; $11^m7 - 12^m3$ ph. (Oss. priv. Treviso Pubbl. No. 14, 1958).

I examined the star on 171 sky patrol plates (JD 2436985-2442036). Unperiodical light-variations were observed. The star is not noticeable coloured. The type is probably Isa.

CSV 5867

CSV 5867 = Wr 16 is a variable star discovered by Weber, R. in 1957; $10^m8 - 12^m0$ ph. (J. Observateurs Vol. 41 No. 4. 74; 1958). The discoverer

found EA-type.

I examined this star on 231 sky patrol plates (JD.2439024-2442036).

CSV 5867 is an EW-star with the following elements:

$$\text{Min. (hel.)} = \text{JD } 2439029.461 + 0^{\text{d}}23368912 \cdot \text{E} \quad (\text{EW})$$

$$11^{\text{m}}20 - 11^{\text{m}}94 / 11^{\text{m}}94 \text{ ph}$$

Observed Minima

Min. hel. 24 ...	Epoch	O - C	
39029.465	0	0 ^d .000	
052.364	98	+0.001	
056.346	115	+ 008	
.455	115,5	000	Min.II
057.386	119.5	- 001	Min.II
061.369	136.5	+ 007	Min.II
088.363	252	+ 009	
387.599	1532.5	+ 006	Min.II
388.416	1536	+ 006	
436.316	1741	- 001	
40483.477	6222	- 001	
41159.429	9114.5	+ 006	Min.II.
249.285	9499	+ 007	
.398	9499.5	+ 004	Min.II
251.264	9507.5	+ 001	Min.II
.382	9508	+ 002	
595.369	10980	- 002	
596.303	10984	- 002	
598.289	10992.5	- 003	Min.II
.417	10993	+ 009	
.521	10993.5	- 004	Min.II
599.348	10997	+ 005	
602.266	11009.5	+ 002	Min.II
959.342	12537.5	+ 002	Min.II
960.279	12541.5	+ 003	Min.II
973.367	12597.5	+ 004	Min.II
42036.346	12867	+ 004	

CSV 5887

CSV 5887 = GR 88 was discovered 1962 by Romano, G. (Oss. priv. Treviso Pubbl. No.29,1962). Weber, R. confirmed the light-variation (Comm. 27. I.A.U. Inf.Bull.Var. Stars No.3, 1962).

On 139 sky patrol plates (Hartha Observatory) I examined this star (JD. 2436895-2442036). The variations are between the limits 11^m60 and 12^m75 ph. The light variations are quick with standstills in minimum light. My series of observations yielded the same unperiodical light fluctuations as obtained by Romano.

CSV 5887 is not coloured. It belongs to the Isa-type.

CSV 5904

CSV 5904 = BD 60^o201 = Wr 54 was discovered by Weber, R. in 1958 (J. Observateurs Vol. 41 No.4.74. 1958). The discoverer found E-type (9^m0 - 9^m0 ph).

I examined this star on 135 sky patrol plates (JD. 2436895-2441598). CSV 5904 is coloured. Variations are irregular between 9^m.44 and 10^m.01 ph. The star is an Isb-type variable.

Further particulars will be published in "Mitt. der Bruno-H.-Bürgel-Sternwarte" Hartha, Heft 7.

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Hartha