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Konkoly Observatory
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BV 623 AND BV 624

Both stars are given as a variable respectively suspected variable star in the Catalogue of Photoelectric Magnitudes and Colours of Southern Stars by A. W. J. COUSINS and R. H. STOY, published as Number 64 of the Royal Observatory Bulletins.

BV 623 = BD $-15^{\circ} 5848 (6^m.0)$ = HD 199 603 (A3)

Comparison-stars: HD 199 443 (A3) HD 200 157 (F5)

The light-curve has been derived assuming a difference of $1^m.46$ between the comparison-stars as given in the Harvard Catalogue. The magnitudes for the variable, however, have been corrected so that the B-values of the photoelectric measurements made at the Cape Observatory fit the light-curve. Mr. A. W. J. COUSINS has been so kind to communicate these measurements to me. By means of these measurements in connection with estimated minima on Bamberg sky patrol plates and the photometric evaluation of the plate material from the Bamberg South-African Station, an exact period could be derived.

Min = JD 242 6160.500 + 1^d.575531 . E, EB, Ampl. 0^m.

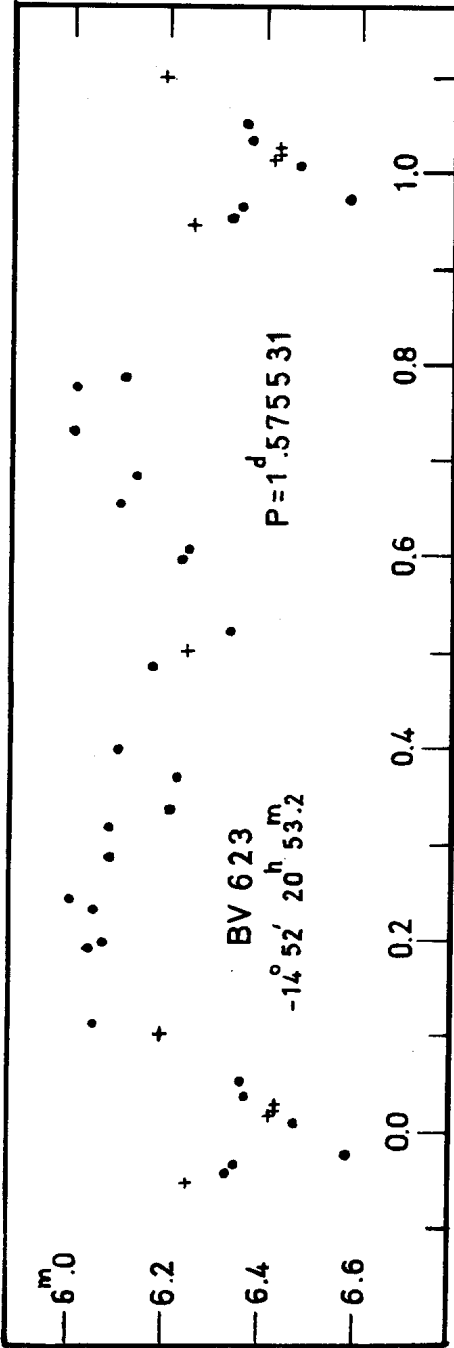
Estimated minima	E	O - C	Estimated minima	E	O - C
JD 242 6160.524	0	+ 0 ^d .024	JD 243 6817.376	6764	-0 ^d .016
6546.478	245	- 0.027	7173.406	6990	-0.056
6929.416	488	+ 0.057	7578.312	7247	-0.061
7386.228	778	- 0.035	7904.435	7454	-0.073
7416.217	797	+ 0.019	8287.349	7697	-0.013
. 235	797	+ 0.037			

Photoelectric measurements obtained at the Cape Observatory

	E	O - C	V	B-V
JD 243 4575.438	5341	+0 ^d .027	6 ^m .17	+0 ^m .25
.411	5341	+0.030	6.18	0.25
.444	5341	+0.033	6.19	0.24
5636.532	6014.5	+0.001	6.02	0.22
5692.378	6050	-0.085	6.02	0.23
5727.285	6072	+0.161	5.95	0.24

Photometric minima (fainter than 6^m.3)

Minima	E	O - C	Minima	E	O - C
JD 243 8561.560	7871	+0 ^d .056	JD 243 8636.362	7918.5	+0 ^d .019
8583.522	7885	-0.040	8640.359	7921	+0.078
8613.440	7904	-0.057	8643.362	7923	-0.070
8621.388	7909	+0.013			



+ = photoelectric measurements obtained at the Cape Observatory

BV 624 = CoD -34° 483 (8^m.0) = HD 7 676 (A3)

Comparison-stars:

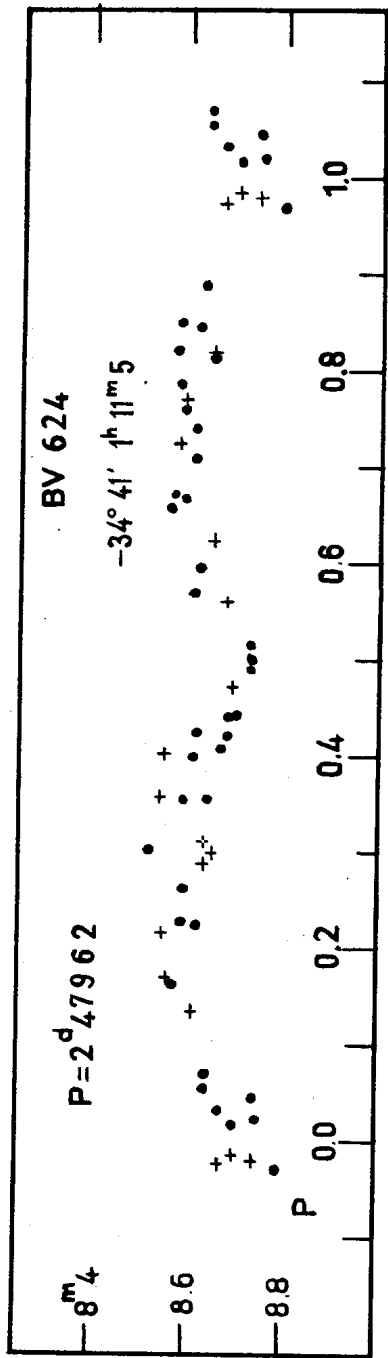
HD 7 898 (A3) 8^m.00 Magnitudes are B-values from the catalogue
 HD 7 817 (F8) 8^m.75 of A.W.J.COUSINS and R.H.STOY.

Min = JD 243 6498.450 + 2.^d47962 . E, Ecl. Binary, Ampl. 0^m.2

The photoelectric measurements, used in deriving a more accurate period, have been obtained at the Cape Observatory under the supervision of R.H.STOY.

Photoelectric measurements obtained at the Cape Observatory

	V	B - V	E	O - C
JD 243 6210.363	8. ^m 40	+0. ^m 25		
6498.398	8.42	0.32	0	-0. ^d 052
6542.400	8.39	0.19		
6548.376	8.40	0.21		
6561.325	8.35	0.19		
6564.306	8.38	0.30		
6567.309	8.38	0.21		
6568.300	8.38	0.18		
6570.297	8.38	0.29		
.324	8.42	0.28	29	-0. ^d 035
6576.315	8.36	0.19		
6583.292	8.36	0.19		
6584.298	8.43	0.22		
6888.461	8.40	0.23		
6891.423	8.41	0.28		
6893.449	8.42	0.23		
6898.438	8.42	0.21		



+ = photoelectric measurements obtained at the Cape Observatory

Photometric minima (fainter than 8^m.7)

	Minima	E	O - C
JD 243	8292.461	723.5	+0. ^d 006
	8297.457	725.5	+0.043
	8318.419	734	-0.072
	8338.325	742	-0.003
	8348.302	746	+0.055
	8354.304	748.5	-0.142
	8358.280	750	+0.115
	8649.497	867.5	-0.023

Bamberg, 31 March 1965

W. STROHMEIER
Remels Observatory

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W. STROHMEIER

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