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Konkoly Observatory  
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Veröffentlichungen der Reemis-Sternwarte Bamberg  
 Astronomisches Institut der Universität Erlangen-Nürnberg  
 Band VII, Nr. 79

ECLIPSING BINARY BY 894

Part A: PHOTOELECTRIC OBSERVATIONS

BV 894 (= HD197070=CPD -72°2115) was independently noted as variable in (UBV) observations made at Siding Spring in September 1968. Because of the possibility that it was an ultrashort period variable, observations were obtained on 5 nights. The star is apparently a contact binary with a period near onehalf day. The observations, and the Australian Eastern Standard Time (AEST), are listed in Table 1. The colors, which show little or no change during the cycle, are  $B-V = +0^m.34$  and  $U-B = +0^m.03$ . The amplitude is near  $0^m.5$ .

Table 1.

Date 1968 Sept	AEST	$V_E$	Date 1968 Sept	AEST	$V_E$	Date 1968 Sept	AEST	$V_E$
20	21:25	$8^m.67$	21	21:15	$8^m.70$	23	19:19	$8^m.74$
	21:50	8.68		21:25	8.67		20:45	8.76
	22:15	8.71		21:54	8.59	24	19:21	8.55
	22:30	8.73		22:50	8.52		22:07	8.81
	23:12	8.86		23:42	8.51		22:15	8.83
	23:24	8.91	22	00:26	8.50		22:23	8.85
21	00:00	8.97		19:18	8.51	27	19:35	8.62
	00:20	8.93		21:07	8.61		21:24	8.61
	20:23	8.81		22:19	8.74		22:58	8.49

No further observations are planned.

1968 October 20

O.J. EGGEN

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Part B: PHOTOGRAPHIC OBSERVATIONS

With help of the photoelectric observations by O.J. EGGEN it was possible to obtain the elements of BV 894 from sky patrol plates:

$$\text{Min} = \text{JD } 243 \text{ } 8228.470 + 0.^{\text{d}}562 \text{ } 979 . \text{ E}$$

M i n i m a	E	O - C
243 8204.542	-42.5	-0.001
8228.465+	0	-0.005
8263.395	62	+0.020
8267.336	69	+0.020
8295.222	118.5	+0.039
8314.276	152.5	-0.048
8316.278+	156	-0.017
8555.549+	581	-0.012
8641.402	733.5	-0.013
8649.311	747.5	+0.014
8992.401	1357	-0.032
8994.412+	1360.5	+0.009
9029.333	1422.5	+0.025
9374.375	2035.5	-0.039
9376.374+	2039	-0.010
9378.372+	2042.5	+0.017
9380.374(3/4)	2046	+0.049
9404.252	2088.5	-0.007
9654.198+	2532.5	-0.017
9656.198+	2535	+0.013
244 0120.058(E)	3360	-0.022
.083(E)	3360	+0.003
0120.933(E)	3361.5	+0.009
0122.888(E)	3365	-0.007
0124.005(E)	3367	-0.015
.010(E)	3367	-0.010
.016(E)	3367	-0.004

Remeis Observatory  
Bamberg, 1968 October 29

W. STROHMEIER