

COMMISSION 27 OF THE I. A. U.
 INFORMATION BULLETIN ON VARIABLE STARS

Number 2507

Konkoly Observatory
 Budapest
 24 April 1984
 HU ISSN 0374-0676

PHOTOELECTRIC OBSERVATIONS OF 1 Per AND BU Tau

The two variable stars have been observed in the V-band with a 165/1430 newtonian telescope. The phases of 1 Per were calculated with the elements from Poretti (1982):

$$\text{Min I} = \text{JD } 2443562.853 + 25^d.9359 \times E \quad (1)$$

Distinct minimum could only be observed at phase 0.41.

1 Per

ΔV are in the sense 4 Per minus 1 Per

4 Per (5.007 V, B8V)

Hel. J.D. 2440000 +	Phase	ΔV	Hel. J.D. 2440000 +	Phase	ΔV
5638.275	0.026	-0.53	5671.217	0.291	-0.57:
5645.279	0.290	-0.47	5673.304	0.368	-0.49
5647.238	0.367	-0.50	5689.213	0.985	-0.42
5648.229	0.405	-0.61	5691.221	0.062	-0.54
5648.279	0.407	-0.63	5751.321	0.380	-0.58:
5651.250	0.521	-0.48	5752.292	0.414	-0.71
5652.238	0.560	-0.50	5759.300	0.688	-0.49
5661.254	0.907	-0.56	5778.292	0.420	-0.67
5663.203	0.983	-0.48	5779.283	0.459	-0.50:
5663.233	0.984	-0.46	5780.279	0.497	-0.52

The variable BU Tau was in maximum light during the observing time. There were small amplitude variations present.

BU Tau

comparison star: 16 Tau (5.46 V, -0.04 (B-V))

check star: 19 Tau (5.65 V, -0.07 (B-V))

Hel. J.D. 2440000 +	V	Hel. J.D. 2440000+	V	Hel. J.D. 2440000+	V
5346.29	5.10	5645.27	5.20	5691.29	5.17
5406.29	5.13	5647.27	5.22	5705.29	5.16:
5407.30	5.13	5651.30	5.21	5744.25	5.17
5430.31	5.13	5663.25	5.25	5751.29	5.24:
5617.37	5.20	5683.26	5.13:	5759.29	5.23
5621.32	5.25:	5684.28	5.15:	5778.31	5.15
5638.25	5.11:	5689.26	5.22	5780.31	5.13

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Reference:

Poretti E., 1982, I.B.V.S. No. 2239