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ELEMENTS OF BRIGHT SOUTHERN CEPHEIDS

Photoelectric UVB photometry of 29 bright southern Cepheids has been carried out principally to provide accurate present epoch phases. The new observations enabled existing periods to be checked and revised periods were derived where necessary. The period, its probable error and the range in Julian date over which the period is valid are given in columns 3, 4 and 5 of the table. Column 2 gives the JD_{max} of the visual light curve only for those Cepheids whose period differed significantly from the value quoted in the second edition of the General Catalogue of Variable Stars. Apart from SZ Mon and RY Sco both of which are known to have a variable period, the remaining Cepheids showed no evidence of any variation in the period.

Two recent determinations of the periods of Cepheids by Tsarevsky (1967) and Cousins (1968) have stars in common with the present Cepheids. Our agreement with Cousins is good but on comparing with Tsarevsky's conclusions significant differences are found in many cases.

The detailed observations are to be published in Monthly Notices of the Royal Astronomical Society.

References

- Cousins, A.W.J., 1968. Mon. Not. astr. Soc. South Afr., 27, 97,
Kukarkin, B.V., Parenago, P.P., Efremov, Yu.I. and Kholopov,
P.N., 1958. The General Catalogue of Variable Stars,
2nd Ed., Moscow.
Tsarevsky, G.S., 1967. Inf. Bull. var. Stars, I.A.U., 176.

TABLE

Cepheid	JD _{max} 2 400 000 +	P (days)	ΔP (days) \pm	JD 2 400 000 +
V496 Aql	--	6.80703	0.00013	>28000
UX Car	--	3.88225	0.00002	10000
ER Car	40277.88	7.71855	0.00015	24000
V Cen	40308.60	5.49392	0.00004	13000
XX Cen	40366.24	10.95550	0.00015	19000
KN Cen	40391.22	34.035	0.002	25000
V381 Cen	--	5.07878	0.00004	27000
V419 Cen	40281.16	5.50710	0.00010	28000
V659 Cen	40348.77	5.82180	0.00015	30000
R Cru	--	5.82574	0.00003	12000
S Cru	40301.19	4.68997	0.00003	12000
T Cru	--	6.73331	0.00008	15000
*SZ Mon	40241.39	32.89	0.02	36000
S Mus	40299.42	9.66007	0.00011	24000
SY Nor	--	12.6452	0.0003	25000
BF Oph	--	4.06784	0.00002	19000
YZ Sgr	--	9.55360	0.00015	19000
AP Sgr	40390.31	5.05793	0.00004	19000
BB Sgr	--	6.63699	0.00008	19000
V350 Sgr	--	5.15424	0.00004	19000
RV Sco	--	6.06133	0.00004	14000
*RY Sco	40365.12	20.3157	0.0005	35000
V482 Sco	--	4.52786	0.00004	28000
V636 Sco	--	6.79671	0.00007	18000
R Tra	--	3.38930	0.00001	04000
S Tra	--	6.32347	0.00003	15000
V Vel	--	4.37101	0.00002	15000
RY Vel	40246.67	28.1270	0.0012	19000
AH Vel	--	4.22717	0.00003	26000

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