

COMMISSION 27 OF THE I. A. U.
 INFORMATION BULLETIN ON VARIABLE STARS
 NUMBER 690

Konkoly Observatory
 Budapest
 1972 June 27

PHOTOMETRIC OBSERVATIONS OF 13 CEPHEID VARIABLES

In the years 1965-1968 photoelectric observations were made of 13 Cepheid variables. The observations were made with the 10-inch refractor telescope of the Leiden Observatory. The sensitivity of the photometer-filter-telescope system is close to the V-band of the U.B.V.-system. All observations were made with respect to a nearby comparison star. Table I lists the variables with their comparison stars. The observations are listed in Table II. The first column of Table II gives the time of observation of the variable in Heliocentric Julian Days. The second column gives the magnitude difference variable minus comparison star. Corrections for differential extinction were only applied if $\Delta \sec z > 0.01$. In those cases a standard extinction coefficient was used.

TABLE I
 Variables and Comparison Stars

Variable	Comparison Star
BK Aur	BD +49° 1310
RX Aur	+39° 1157
SY Aur	+42° 1192
RW Cam	+58° 672
RX Cam	+58° 708
SU Cas	+67° 224
W Gem	+15° 1255
SV Mon	+ 6° 1215
AU Peg	+17° 4591
AW Per	+36° 926
SV Per	+42° 1067
SW Tau	+ 3° 597
SZ Tau	+17° 750

TABLE II
THE OBSERVATIONS

BK Aur		RW Cam	
He1. J.D.	Δm	He1. J.D.	Δm
2439053.582	+0.42	2439024.469	+0.68
054.610	+0.29	025.524	+0.70
056.534	-0.24	026.525	+0.60
080.580	-0.23	028.551	+0.47
081.545	-0.15	031.490	-0.11
136.534	-0.23	038.534	+0.50
204.605	+0.24	039.489	+0.60
507.506	+0.10	052.477	+0.28
536.408	-0.27	053.433	+0.36
537.525	-0.14	054.482	+0.47
587.450	+0.09	059.507	+0.67
594.403	-0.18	080.378	+0.06
		081.412	-0.12
		082.482	-0.10
		803.459	-0.07
		815.455	+0.54
		RX Cam	
		2438984.576	+0.25
		8991.516	+0.63
		8996.588	+0.77
		9005.526	+0.95
		010.424	+0.36
		018.387	+0.34
		019.494	+0.64
		024.449	+0.25
		025.509	+0.43
		026.513	+0.40
		028.538	+0.80
		031.473	+0.48
		038.510	+0.83
		039.476	+0.40
		044.535	+0.86
		052.453	+0.86
		053.424	+0.98
		054.471	+0.79
		059.496	+0.72
		080.361	+0.39
		080.641	+0.44
		081.561	+0.36
		802.479	+0.60
		803.449	+0.73
		815.446	+0.26
		884.413	+1.00
		913.493	+0.66
RX Aur			
2439026.627	-0.60		
028.691	-0.95		
031.525	-0.82		
039.592	-0.77		
052.601	-1.05		
053.568	-0.93		
054.564	-0.85		
055.588	-0.74		
056.518	-0.62		
136.483	-0.86		
205.517	-0.55		
507.531	-0.85		
537.313	-0.47		
537.582	-0.50		
543.473	-0.74		
587.419	-1.02		
802.492	-0.57		
884.473	-0.36		
SY Aur			
2439053.642	+0.43		
056.547	-0.17		
080.562	+0.22		
136.499	-0.41		
507.545	+0.15		
536.423	+0.18		
537.537	+0.22		
594.431	-0.15		
RW Cam			
2439005.547	+0.50		
010.440	+0.59		
018.403	+0.14		
019.507	+0.27		

AW Per		SW Tau	
<u>Hel. J.D.</u>	<u>Δm</u>	<u>Hel. J.D.</u>	<u>Δm</u>
2439028.654	-0.12	2439026.650	+0.10
052.569	-0.44	028.622	-0.45
053.546	-0.31	038.574	-0.54
054.538	-0.10	052.536	-0.56
055.562	-0.05	053.519	+0.09
056.493	-0.52	054.517	-0.37
077.490	-0.64	054.579	-0.26
507.493	-0.05	055.537	-0.41
536.381	-0.68	056.464	-0.11
537.298	-0.47	056.567	-0.00
537.568	-0.55	077.455	+0.14
587.385	-0.80	079.417	-0.56
594.358	-0.74	136.404	-0.57
884.439	-0.83	139.471	-0.40
917.428	-0.72		

SV Per		SZ Tau	
2439026.604	+0.06	2439025.574	+0.35
028.572	-0.14	026.582	+0.17
031.538	-0.74	028.593	+0.36
038.592	+0.08	031.572	+0.32
039.573	-0.10	038.545	+0.36
052.584	-0.28	039.552	+0.05
053.556	-0.74	052.552	+0.03
054.552	-0.58	052.678	+0.05
055.575	-0.51	053.533	+0.29
056.507	-0.40	054.529	+0.37
077.507	-0.52	054.594	+0.25
136.516	-0.11	055.549	+0.04
210.318	-0.60	056.479	+0.24
507.457	-0.17	056.581	+0.26
536.391	-0.21	077.474	+0.04
537.287	-0.05	080.474	+0.08
543.458	-0.76	081.526	+0.19
587.435	-0.58	087.457	+0.08
884.451	+0.08	139.502	+0.32

Sterrewacht
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