COMMISSION 27 OF THE I. A. U. INFORMATION BULLETIN ON VARIABLE STARS Number 936

Konkoly Observatory Budapest 1974 October 22

MAXIMA OF THE RR_S -VARIABLES CY Aqr DY Her AND DY Peg

During test runs of the newly designed photoelectric double beam photometer for the 106cm Cassegrain reflector of the Hohe List Observatory these RR $_{\rm S}$ -Lyrae stars have been observed in B and V. The photometer allows the simultaneous photometric monitoring of the variable and a comparison star within the field of the telescope with fairly high time resolution.

The maxima times of the individual B-light curve cycles given in the table were derived by using Pogson's method. The epochs and (O-C)'s are based on the light elements given by Kurarkin et al. (Gen.Cat.Var.Stars 1, 19, 1969) for CY Agr, Hardie and Lott (Astrophys. Journal 133, 71, 1961) for DY Her and Grigorevsky and Mandell (Perem.Zvezdy 13, 190, 1960) for DY Peg. On the average the deviations from these elements amount 9.4 per cent of the period for CY Agr, 1 per cent for DY Her, and 7.6 per cent for DY Peg as can be seen from the last column of the table. The "noise" of the period length of the individual cycles amounts to ±0.65% for CY Agr resp. ±1.56% for DY Peg, which is slightly above the present time resolution of our equipment for such short periods.

periods.	` T	able		
Star	Maxima J.D. hel 244 0000 +	E	O-C	(O-C)/P
	d		đ	8
CY Aqr	1958.3639±0.0003	47589	-0.0059	- 9.7
	1959.2799±0.0010	47604	-0.0055	- 9.0
	1959.3405±0.0003	47605	-0.0059	- 9.7
	1959.4018±0.0003	47606	-0.0057	- 9.3
	1959.4634±0.0Ó03	47607	-0.0051	- 8.4
	1959.5234±0.0003	47608	-0.0062	-10.2
DY Her	1840.4222±0.001	56522	-0.0015	- 1.0
DY Peg	1937.4701±0.001	80438	-0.0062	- 8.5
	1937.5444±0.001	80439	-0.0048	- 6.5
	1957.3785±0.001	80711	-0.0066	- 9.1
	1957.4535±0.001	80712	-0.0046	- 6.3
	1957.5243±0.001	80713	-0.0067	- 9.2
	1957.5998±0.001	80714	-0.0042	- 5.7

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