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NOTES ON SIX LONG-PERIOD VARIABLE STARS

On 509 Bamberg Sky Survey plates, the poorly known stars DF, DG, DH, DL Pav, RY and RZ Pic were investigated using the Argelander-step-method. Comparison stars were determined by the Selected Areas no. 169, 196, 197 (1). Table I gives the maxima and minima, found by the Pogson method.

Table I				
Star	ϕ	Max./Min. (J.D.)	Mag. (pg)	N
RY Pic	M	2438378 ^d	11 ^m .4	19
	M	40565:	10.6	24
RZ Pic	M	38420	10.1	10
	M	38731	10.0	14
DF Pav	m	40386:	15.0:	8
	m	40768:	14.8	7
DG Pav	M	38940	11.9	15
	M	40005:	12.1	5
DH Pav	M	38604	11.7	32
	M	39331	11.7	20
	M	40068:	11.8	6
DL Pav	M	39374:	11.5	20
	M	40082	13.2	12

N= Number of used plates, M=Maximum, m=Minimum.

RY Pic = HV 8090 varies in the limits 10^m.6 - (14^m.1 pg. From the whole material, a period of 219^d may be possible.

RZ Pic = S 4864. Together with the GCVS epoch (2), we found Max=2425663^d + 311^d.E. Variable in the limits 10^m.0 - 14^m.0 pg.

DF Pav varies from 11^m.9 to 14^m.8 pg. The period is in the order of 374^d, the lightcurve is strongly variable. The star belongs to the SRa-type.

DG Pav is variable from 11^m.9 to less than 14^m.1 pg.

DH Pav. From the table we found Max=2438604^d + 244^d.E.

Variable in the limits $11^m.7 - 14^m.4$ pg.

DL Pav varies from $11^m.0$ to less than $14^m.7$ pg. The period is in the order of 174^d .

U. HOPP and M. KIEHL
Dr. Remels Observatory, Bamberg

References:

- (1) Brun, Vehrenberg - Atlas of Harvard-Groningen Selected Areas
Düsseldorf 1965
- (2) Kukarkin et al. - General Catalogue of Variable Stars,
Moscow 1969