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1981 LIGHT CURVE OF II PEGASI

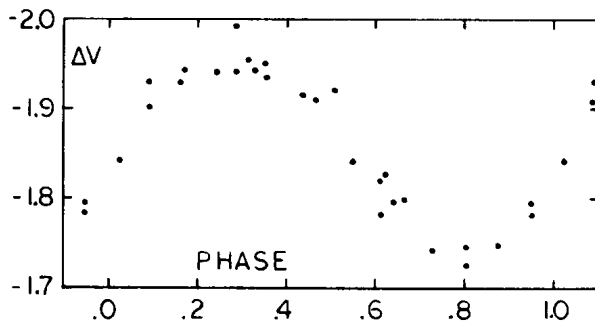
A recent note by Byrne et al. (1983) prompts us to make available our 1981 photometry of the interesting RS CVn binary II Pegasi.

We observed II Peg differentially in 1981, using BD +28^o4648 as our comparison star, which is C-2 of Byrne et al. This comparison star and the variable are almost identical in B-V color. Lines observed on 25 nights with his 20-inch, Louth observed on one night with his 11-inch, and Stelzer observed on one night with his 14-inch. The nightly means (of the 2-to-7 individual differential magnitudes in V of the UBV system) are listed in Table I, where the last two are by Louth and Stelzer, respectively.

Table I

Differential V photometry of II Pegasi in 1981

JD(he1.)	ΔV	JD(he1.)	ΔV
2444000+		2444000+	
846.86	-1.929	897.71	-1.741
849.88	-1.782	898.71	-1.747
858.84	-1.793	899.70	-1.842
859.83	-1.902	900.69	-1.940
867.85	-1.940	901.69	-1.954
868.86	-1.915	903.68	-1.821
875.77	-1.911	908.66	-1.948
876.76	-1.820	909.67	-1.921
881.75	-1.934	910.71	-1.798
883.71	-1.794	911.67	-1.743
884.78	-1.725	928.65	-1.943
885.74	-1.783	889.75	-1.839
886.73	-1.930	921.65	-1.992
887.72	-1.939		



All 27 nightly means are plotted in the Figure, where phase is computed with the ephemeris

$$\text{JD } 2443030.24 + 6^{\text{d}}.724183 \text{ E.}$$

This light curve differs dramatically from the one just one year before. The 1980 light curve of Hall and Henry (1983) had two distinct minima whereas this 1981 light curve has only one minimum.

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