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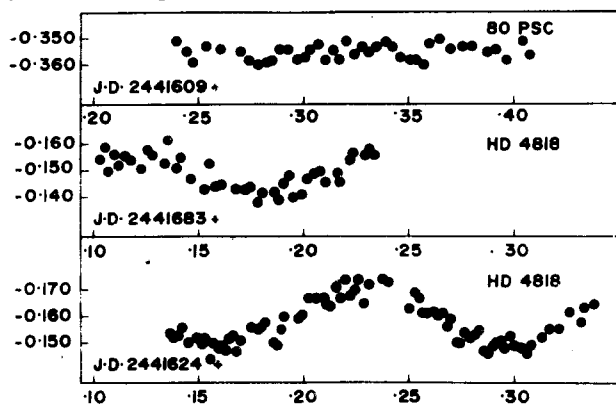
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INVESTIGATION OF TWO DELTA SCUTI SUSPECTS

In our investigation of two suspected Delta Scuti variables, HD 4818 (HR 238; $m(V) = 6^m.39$) and 80 Psc (HR 330; $m(V) = 5^m.53$) as listed by Michael A. Seeds and Gail A. Yanchak (The Delta Scuti Stars, the Franklin Institute 1972), the former has been found to be variable. The observations were obtained in V filter on the 38cm reflector of this observatory, equipped with one channel photometer with an unrefrigerated 1P21 photomultiplier tube.

The light curves of HD 4818 on two nights, as shown in the figure show a period of very nearly $0^d.1360$ and a light amplitude of $0^m.025 \pm 0^m.01$. The spread of points in the light curve of 80 Psc on one night does not indicate a definite variation of its light beyond the instrumental limit of $0^m.01$. The comparison stars employed for HD 4818 and 80 Psc were HD 4881 (HR 241; $m(V) = 6^m.20$) and 89 Psc (HR 378; $m(V) = 5^m.17$) respectively. Further investigations are proceeding.



Light curves of 80 Psc and HD 4818 through V filter. The ordinates $\Delta m(V)$ are the differential instrumental magnitudes in the sense comparison minus variable star.