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PHOTOMETRY OF THE G8V STAR HD192020

During an observing run devoted to Wolf-Rayet stars, the G8V star HD192020 was used as a comparison. The observational conditions are described in our previous paper (I.B.V.S., No. 2821).

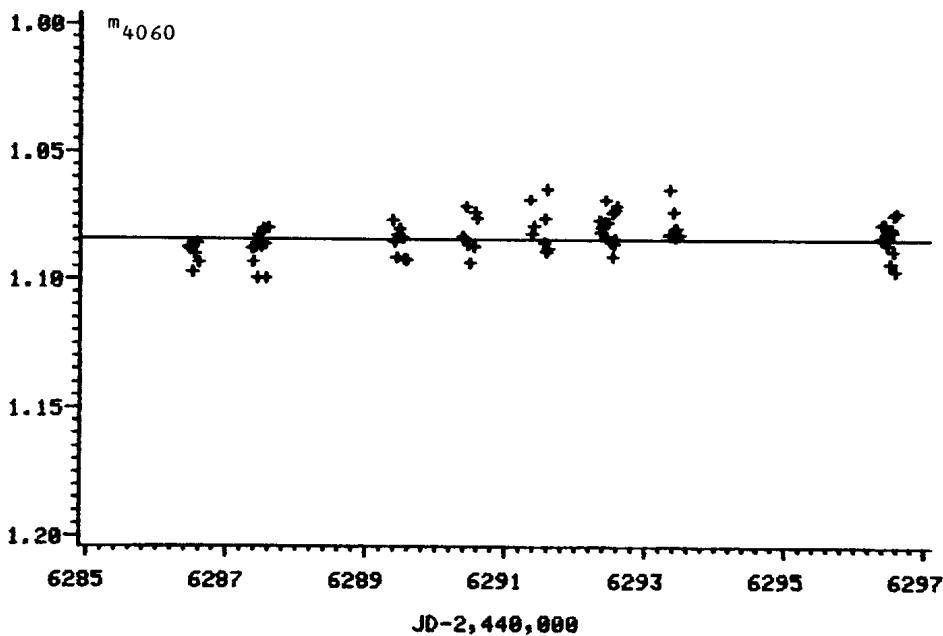


Fig. 1. Variations of HD192020 as a function of the heliocentric Julian Date. The comparison stars are HD192536 and HD192537.

Comparison with the two constant stars HD192536 and HD192537 revealed a clear continuous variation. The range of amplitude in the three filters used is of about .02 magn. A period (if the variations are periodic) cannot be established, of course, but it could be of about 10 to 20 days. A shorter alias close to 1 day seems to be ruled out despite the noise in our data.

No indication on the origin of those variations can be given. Further investigations, photometrically and spectroscopically are clearly needed.

Fig. 1 shows the variation of m_{4060} as a function of the heliocentric Julian date. The data are HD192020 - 1/2 (HD192536 + HD192537) smoothed with a time scale of 30 minutes.

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