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A POSSIBLE ECLIPSE IN HD 82191

Heard and Hurkens (J. Roy. Ast. Soc. Canada 67, 306, 1973) have given an analysis of the double-lined spectroscopic binary HD 82191. This star is of interest because one of the components is an Am star, and the minimum masses derived spectroscopically are so large that there is a reasonable probability that the system is an eclipsing one.

On the basis of their spectroscopic results, Heard and Hurkens supplied me with a list of predicted eclipse epochs, and the unusual coincidence of one of these with a photometric night on February 7, 1974 allowed a search for an eclipse. One does appear to have been observed, a primary eclipse, lasting approximately three hours, but only 0.03 mag. deep in V. Details of these observations will be published elsewhere, but clearly so shallow an eclipse needs to be verified, and I am therefore drawing the attention of other photometrists to this system. Although the eclipse is too shallow to be useful in determining radii, etc., the mere knowledge that an eclipse is present at all will suffice to determine the masses.

HD 82191 has $m_v=6.6$ and coordinates $\alpha_{1975} = 9^h 29^m 8$, $\delta_{1975} = +27^\circ 30'$. HD 81940, an A star of $m_v=8.4$ and 23' due west of HD 82191, was used as a comparison star.

Forthcoming epochs of eclipse predicted by Heard and Hurkens are as follows:

JD 2442113.601	JD 2442158.660
22.613	67.672
31.625	76.684
40.637	85.696
49.649	94.708

February 14, 1974.

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