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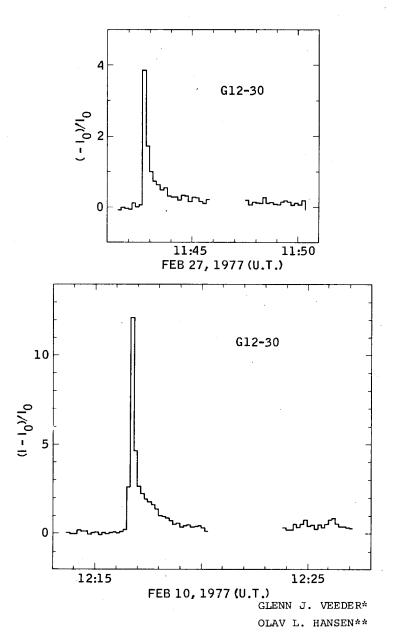
## FLARE ACTIVITY ON G12-30

We have observed two prominent flares on the star G12-30 ( $\alpha$ = 12<sup>h</sup>16<sup>m</sup>31<sup>s</sup>  $\delta$ = 11<sup>o</sup>24.0',1950) during seven nights of monitoring it as part of a survey of nearby late M dwarfs.Photometric observations were made in the B-band of the UBV system using the 60-inch (1.5 m) telescope of the Hale Observatories at Mt. Wilson. Time resolution was limited to ten-second integrations. The sky background was measured at three minute intervals. After subtracting the sky background, the signal was ratioed to the quiescent state of the object. A total time of 14.6 hours was spent intergrating on the object itself during the periods February 9-11 and February 26 - March 1, 1977 (UT). Harrington et al. (1975) list the following data for G12-30:

 $m_V = 13.79$  B-V= 1.83  $\pi = 0.151$ "

which implies that the object is a late M dwarf. Image tube spectra previously obtained by Veeder (unpublished) indicate a late M type with strong  $H\alpha$  in emission. Thus, G12-30 is probably a UV Ceti type flare star.

This paper presents the results of one phase of research carried out at the Jet Propulsion Laboratory, California Institute of Technology, under contract NAS 7-100, sponsored by the National Aeronautics and Space Administration.



\*Guest Investigator, Hale Observatories California Institute of Technology and Carnegie Institution of Washington \*\*National Research Council, Resident Research Associate

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