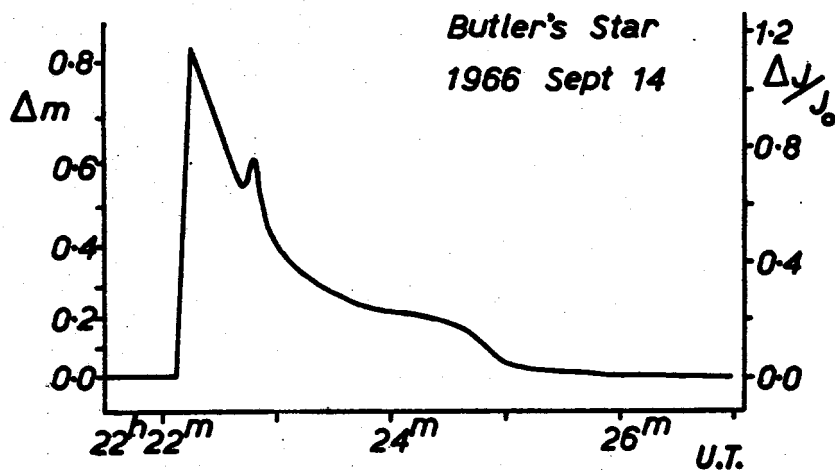


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FURTHER FLARE ACTIVITY IN BUTLER'S STAR IN THE SMC

The early G-type star in the direction of the Small Magellanic Cloud, suspected by C.J. Butler to have exhibited a rapid flare-like variation/1/, has been monitored for seven hours at the 16-inch Nishimura reflector by J.P. Eksteen. On the night 14-15 September 1966, further activity was observed at 22^h22^m U.T. when a flare of 0.8 magnitude /blue/ occurred with a duration of about 3 minutes. Figure.



This short duration is typical of flares of moderate energy observed in the UV Ceti-type stars. However, from a comparison with several flare stars /2/, the rates of increase and decline and the energy involved in a star of this luminosity clearly differentiates this event from the classical flares in the dMe-type stars. A luminosity classification for this star is urgently needed, as well as a search for abnormal spectral features, especially emission lines.

Boyden Observatory,
Bloemfontein
September 17, 1966

A. D. ANDREWS
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/1/ A. D. Andrews, I.B.V.S., No. 156 /1966/.

/2/ A. D. Andrews, Irish Astron. Journ., Vol. 7, No. 1;
Armagh Obs. Contrib., No. 49 /1965/.