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Konkoly Observatory
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OBSERVATIONS OF V645 Cen

During April 1976 the flare star V645 Cen (R.A. $14^{\text{h}}26^{\text{m}}42^{\text{s}}$, declination - $62^{\circ}29'$ /1950/, 11.3 visual magnitude at minimum, spectral type dM5e) was monitored during three nights at Boyden Observatory.

An uncooled EMI 6256A photomultiplier tube and a standard Johnson B filter were used, fitted to the 41 cm Nishimura reflector. Observing conditions were excellent throughout the runs.

Seven low intensity flares were recorded, five being considered as spike flares following Moffett's terminology (1).

The diagrams are representative of the flares; they are similar in character to some of the V645 Cen flares we have observed on previous occasions.

Date	Monitoring Time (U.T.)	Time of Flare Maximum (U.T.)	$\frac{I_{\text{off}} - I_0}{I_0}$	Duration of Flare (seconds)	Comments
06 April 1976	17 ^h 54 ^m 00 ^s to 19 33 00	19 ^h 23 ^m 36 ^s	0.82	6	Small flare
23 April 1976	19 20 45 to 23 20 00	21 23 37 21 56 51 22 35 28 22 38 03	1.06 0.71 0.56 0.61	3 3 4 3	Spike flare Spike complex Spike flare Spike flare
24/25 April 1976	23 35 00 to 03 20 13	00 51 53 02 26 14	1.19 0.91	2 >78	Spike flare flare

We are greatly appreciative of the help given to us by Professor F.D.I. Hodgson, the Director of the Institute of Ground-water Studies at the university, in providing access to his department's Hewlett Packard Model 9825 microcomputer and digitizer for the reduction of our data.

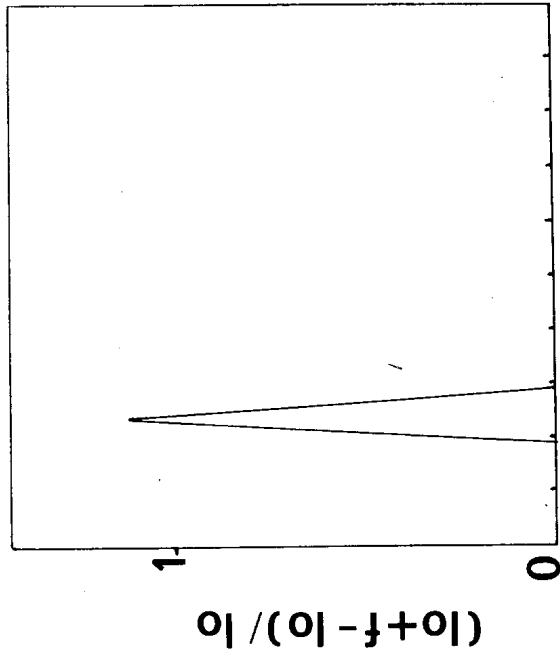
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 Bloemfontein, Rep. of South Africa

Reference:

(1) Moffett, T.J., 1974, Sky and Telescope, 48. 94

V 645 Cen

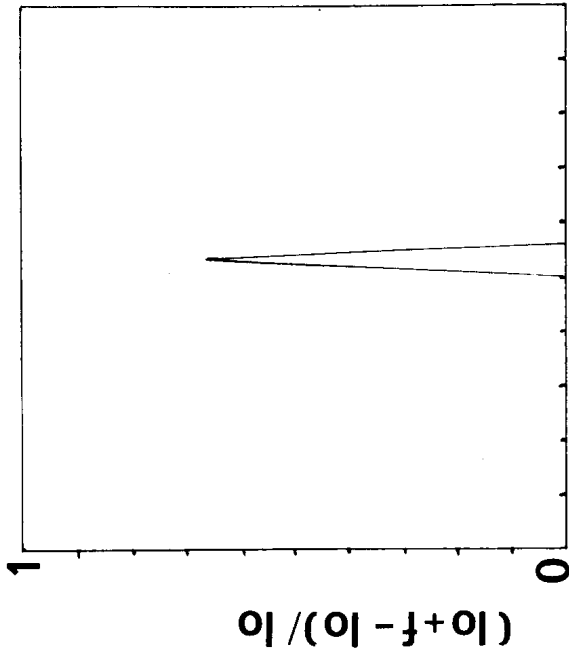
23/24 April '76



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V 645 Cen

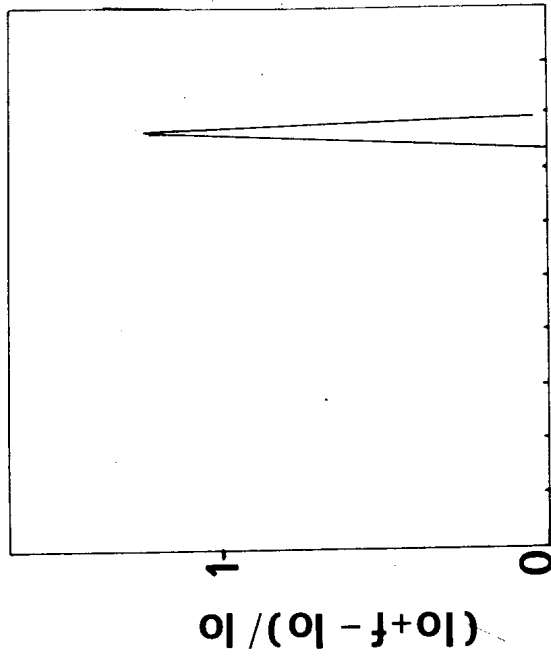
23/24 April '76



universal time

V 645 Cen

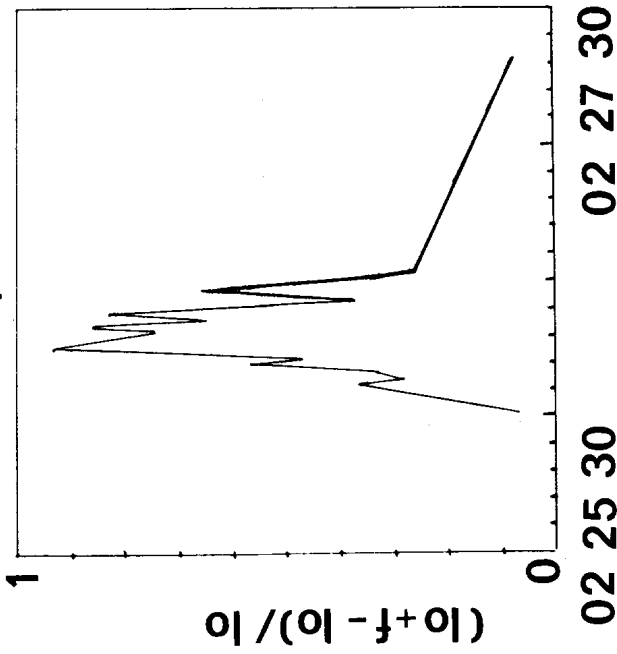
24/25 April '76



universal time

V 645 Cen

24/25 April '76



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