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PHOTOELECTRIC PATROL OF THE FLARE STAR BD +13°2618

During the period (April 15-18, 1970) of cooperative observations planned by the Working Group on Flare Stars (Andrews and Chugainov, 1970), the flare star BD +13°2618 was observed photoelectrically at our Observatory with a 91 cm and a 30 cm cassegrain telescope feeding similar photometers equipped with EMI 6256 photomultipliers (Spectral response S 13). As a rule, the observations were carried out in b light using the Shott filters combination BG 12/1 + GG 13/2. A few measurements in v light were also made using a GG 14/2 Shott filter.

No flare activity was detected during the 17.2 hours of patrol in b light and the 0.5 hour of patrol of v light. The Table overleaf contains the intervals of effective monitoring time and, for each night, the difference between the limiting magnitude (m_{lim}) and the magnitude of the quiet star (m_0), as defined by $m_{lim} - m_0 = -2.5 \log (3\sigma / I_0)$, where σ represents the standard deviation of the mean random noise fluctuation and I_0 the mean intensity of the quiet star.

F. Spinella and V. Stancanelli have collaborated in the observations.

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Reference:

Andrews, A.D., Chugainov, P.F., 1970, Comm. 27 IAU, Inf. Bull. Var. Stars, No. 416

Date	F	Tele- scope	Coverage (U.T.)	$\overline{m_{lim} - m_o}$
1970				
Apr. 19	b	91cm	20h ¹⁹ min-20h ³⁸ min	+ 4.42 ^m
Apr. 23	b	91	1924-1925; 1926-1932; 2015-2017; 2019-2137; 2142-2147; 2148-2226;	+ 4.62
	v		2013-2015;	+ 5.61
Apr. 24/25	b	91	2221-2226; 2236-2240; 2258-0032; 0033-0047; 0055-0058; 0103-0107; 0108-0205	+ 4.15
Apr. 25/26	b	30	1944-2106.	+ 4.35
	b	91	2306-2308; 2338-0040; 0058-0233; 0238-0244; 0246-0248.	+ 4.38
	v		2303-2305; 0055-0057.	+ 5.12
Apr. 26/27	b	91	2001-2003; 2009-2104; 2115-2153; 2156-2204; 2207-2210; 2219-2241; 2243-2245; 2246-2336; 2346-0024; 0027-0038; 0041-0052; 0106-0140; 0143-0209	+ 6.30
	v		2003-2008; 2111-2114; 2216-2218; 2344-2346; 0104-0107.	+ 5.32
Apr. 27/28	b	91	2005-2007; 2063-2101; 2117-2227; 2237-2252.	+ 5.00
	v		2007-2012; 2112-2116.	+ 5.13
Apr. 28	b	91	2324-2341.	+ 3.55