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FLARE OBSERVATIONS OF V1216 SAGITTARII

During the period 14th July - 22nd July 1974 observations were made at Boyden Observatory of the flare star V1216 Sagittarii with the 41cm Nishimura Reflector. The detecting element was a cooled EMI 6256A photomultiplier tube fitted with a standard Johnson B filter. The table gives details of the observations over a total monitoring time of 20<sup>h</sup>03<sup>m</sup>. Seven flares were observed during this time, all of them being of moderate intensity. One flare was particularly large, but unfortunately the recording equipment went off scale and it was only possible to estimate the intensity as greater than 6.00.

Considering the time intervals between the following flares

1 and 5 95<sup>h</sup>10<sup>m</sup>00<sup>s</sup> (-2x48h)  
 2 " 3 50 25 30 (-1x48h)  
 5 " 7 94 23 30 (-2x48h)

we possibly have more evidence for the forty-eight hour interval previously reported for this star (Andrews, A.D. 1966 and A.H. Jarrett and J.P. Eksteen, 1969).

Date July 1974	Universal Time	Total Hours Per Night	Flare No.	U.T. of Max.	Duration minutes	$\frac{I_o+f-I_o}{I_o}$
14	23 <sup>h</sup> 04 <sup>m</sup> -23 <sup>h</sup> 36 <sup>m</sup>	6 <sup>h</sup> 40 <sup>m</sup>	1	23 <sup>h</sup> 07 <sup>m</sup> 5	32	3.00
x 15			2	19 49.0	18	>6.00
17	22 02 -22 27.5	4 35	3	22 14.5	25.5	1.70
18	19 28.3-19 46	4 36	4	19 36.5	17.6	1.77
18	22 08.5-22 36	4 36	5	22 17.5	27.5	1.97
21	21 01 -21 17	2 45	6	21 10.6	16.0	1.81
22	20 33 -20 48.8	1 27	7	20 41.0	15.8	1.93

xRecording gear went off scale; values are estimated.

A.H. JARRETT and G. GRABNER  
 Boyden Observatory,  
 Department of Astronomy,  
 University of the O.F.S.  
 Bloemfontein.  
 Republic of South Africa.

References:

Andrews, A.D. 1966 P.A.S.P. 78, 542  
 A.H. Jarrett and J.P. Eksteen, 1969, MNASSA, 28, 131





