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PHOTOMETRY OF V1216 SAGITTARII

During the recent International Co-operative Flare Star period from the 3rd to 17th July, 1972, observations were made on V1216 Sgr with the 41cm Reflector at Boyden Observatory, The detector 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 24^h42^m.

Three flares were observed during this period, two of them being minor flares. Unfortunately adverse weather conditions prevented more observations.

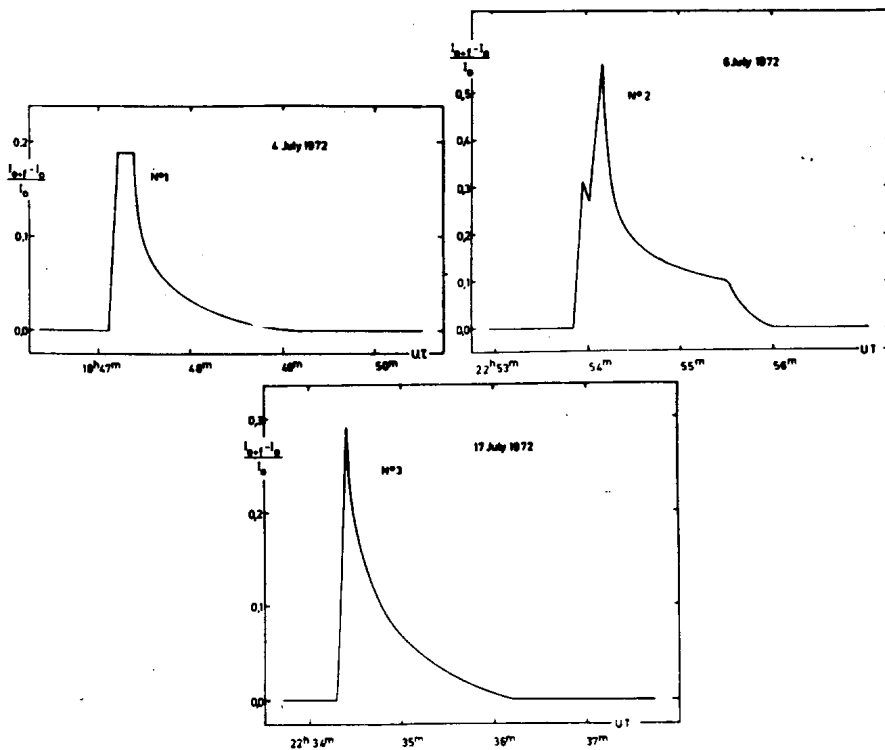
The time interval between flares 1 and 2, viz. 48^h6^m.8 possibly provides some more evidence for the 48^h interval previously reported for this star (Andrews 1966 and Jarrett and Eksteen 1969).

Monitoring Data for V1216 Sgr

July 1972		Total Hours Flare per Night	UT of Flare	Dura- tion (mins.)	$\frac{I_{O+f} - I_O}{I_O}$
3	17 ^h 18 ^m - 19 ^h 47 ^m	4 ^h 32 ^m			
4	20 02 - 22 05				
	17 25 - 20 53	5 22	1	18 ^h 47 ^m .10	2.10
	21 02 - 22 07				0.19
	22 14 - 23 03				
5	17 22 - 21 10	3 48			
6	18 39 - 19 03	3 20	2	22 53.85	2.15
	19 20 - 20 56				0.56
	22 37 - 23 57				
11	17 08 - 20 10	3 02			
17	16 51 - 19 38	4 38	3	22 34.3	1.9
	22 01 - 23 52				0.29
	Total	24 ^h 42 ^m			Mean 0.35

Note: I_O is the intensity deflection (less sky background) of the quiet star.

I_{O+f} is the total intensity deflection (less sky background) of the star plus flare at maximum.



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References:

Andrews, A.D., 1966, P.A.S.P. 73, 542.
 Jarrett, A.H., and Eksteen, J.P. 1969; MNASSA. 28, 131.