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ON THE PERIOD BETWEEN FLARES OF V1216 SAGITTARII

Since 1969 numerous observations have been made at Boyden Observatory of the flare star V1216 Sagittarii (R.A. $18^{\text{h}}47^{\text{m}}42^{\text{s}}$, declination $-23^{\circ}52'$, visual magnitude 10.5).

The telescope used during this work was the 41 cm Nishimura Reflector, fitted with a cooled EMI 6256A photomultiplier tube and a standard Johnson B. filter.

The following table gives a summary of the observations:

Interval between flares	Total Monitoring Reference time	(1)
1 and 6 47 ^h 38 ^m 00 ^s	25 ^h 11 ^m 0 ^s	(1)
3 " 6 46 48 45		
3 " 7 48 35 35		
5 " 8 45 13 10		
7 " 10 46 47 56		
8 " 11 145 47 01		
8 " 12 144 43 00		
1 " 6 48 26 30	50 24 0	(2)
3 " 6 46 51 45		
3 " 7 48 39 30		
5 " 8 46 59 45		
7 " 10 46 47 42		
1 " 3 46 02 42	41 54 0	(3)
3 " 4 45 09 48		
4 " 5 97 57 48		
1 " 3 45 53 54	41 54 0	(4)
2 " 3 46 02 42		
3 " 4 45 09 48		
4 " 5 97 57 48		
1 " 2 48 06 48	24 42 0	(5)
1 " 5 95 10 00	20 03 0	(6)
2 " 3 50 25 30		
5 " 7 94 23 30		

(1) I.B.V.S. No. 379, September 15, 1969,
 A.H. Jarrett and J.P. Eksteen.

- (2) MNASSA, 28, 11 and 12, p. 131, 1969,
A.H. Jarrett and J.P. Eksteen.
- (3) I.B.V.S. No. 481, October 31, 1970,
A.H. Jarrett.
- (4) MNASSA, Vol. 30, No.7, July 1971, p. 94,
A.H. Jarrett and J.P. Eksteen.
- (5) I.B.V.S. No. 711, August 31, 1972,
A.H. Jarrett and J.P. Eksteen.
- (6) I.B.V.S., No. 968, March 3, 1975,
A.H. Jarrett and G. Grabner.

From the above the mean period for the interval between flares is $47^{\text{h}}55^{\text{m}}45^{\text{s}}$. Although realizing that it by no means provides conclusive evidence, it is a fact that a significant number of the flares observed (just over 87%) indicate an interval between flares of approximately 48^{h} , $2 \times 48^{\text{h}}$ or $3 \times 48^{\text{h}}$. This might be regarded as further support for the 48^{h} interval previously reported for this star (Andrews, 1966).

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Reference:

Andrews, A.D. 1966, P.A.S.P. 78, 542