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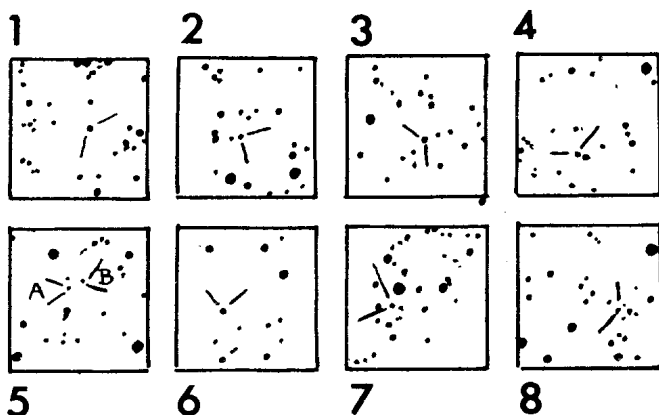
EIGHT NEW LONG PERIOD VARIABLES IN SAGITTARIUS

Among the variables discovered with the Rodman Blink Microscope in the summer of 1971 by students at the Maria Mitchell Observatory are eight new long period variables, three with apparently changing periods.

No.	Position 1900	Max	Min	Type	J.D.	Period	D*	C*	Note
1	18 ^h 20 ^m 19 ^s -32°20'7"	12.2	13.6	SR	41180	200	EH	PK	
2	20 46 -28 35.8	12.5	[14.	M	36780	239	EH	PK	
3	22 52 -28 27.8	12.6	[14.5	SR	36035	115.3	KK	PK	1
					39370	114.5			
4	22 55 -22 50.9	13.3	[15.	M	37140	249	EH	BH	
5	24 35 -20 7.0	12.3	14.9:	M	31970	358	PB	BH	2
					41140	367			
6	27 17 -20 10.4	11.6	[14.2	M	30090	345	PB	BH	3
					36830	358			
7	35 49 -27 55.9	13.0	[14.5	M	37490	270	EH	DH	
8	36 40 -28 12.0	12.5	[14.5	M	40120	345	EH	DH	

*D, Discoverer: PB, Pamela Bonnell; EH, Esther Hu; KK, Karen Kwitter.

C, Computer: BH, Barbara Hatfield; DH, Dorrit Hoffleit; PK, Pamela Knight.



Notes:

- The period of 115.3 days holds for JD 26000-38000; from 38000 to 41500 the period is 114.5 days.

2. For JD 23900-33000 the period of 358 days holds, while 367 days fits the observations for 31500-41500. In the overlap interval either of these periods satisfies the available observations. In chart 5 the variable is marked A; star B is a suspected short period variable.

3. For JD 23900-32000 the period of 345 days fits the observations, whereas 358 days (fortuitously the same as for the early observations of the preceding star) fits the observations for 36000-41500.

Of the students listed as discoverers (D) or computers (C), Miss Pamela Knight was a 1972 NSF Undergraduate Research Participant; the others were all employed under the 1971 NSF Grant GP-30065. We all wish to express our appreciation to the U.S. National Science Foundation.

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