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ON THE PERIOD OF THE BLAZHKO-EFFECT IN RZ LYRAE

The amplitude of the RRab variable RZ Lyrae changes periodically between 0.7 and 1.2 magnitudes in visual light. The following moments for the maxima and minima of the amplitude have been compiled from all available data from 1909 to 1966. The majority of the moments were determined on the basis of the original observations. Those taken from literature sources are asterisked.

Max J. D.	O-C	Min. J. D.	O-C	N	Observer
2418430	+3 <sup>d</sup>	2418486::	0 <sup>d</sup>	-108	A. Nijland
8541	0	8600:	0	-107	"
8658:	+2	8714:	0	-106	"
8772	-2			-105	"
2426150:	+11			- 41	G. Lange
		2426195::	-3	- 41	V. Tsessevich
6246::	-9			- 40	"
		6552:	+6	- 38	"
6600:	-3	6677 <sup>+</sup>	+15	- 37	"
6939::	-11	7005::	-4	- 34	"
		8400::	-2	- 22	A. Saloviev
		2430605 <sup>+</sup>	-9	- 3	V. Tsessevich
2430911!	+6	0960!	-4	0	"
1027:	+5			+ 1	"
		1203!	+6	+ 2	"
1257!	+2	1320:	+6	+ 3	"
		2473 <sup>+</sup>	-9	+ 13	"
3480:	+4	3524!	-6	+ 22	A. Batyrev, L. Klepicova
3835:	+7			+ 25	L. Klepicova, V. Tsessevich
		3890!	+4	+ 25	A. Batyrev, L. Klepicova
4647:	-1			+ 32	L. Klepicova
		6110::	-6	+ 44	V. Tsessevich
		7174!	-1	+ 53	Yu. Migach, Yu. Romanov, V. Tsessevich
7230:	-4			+ 54	Yu. Migach, Yu. Romanov
		9306	+8	+ 71	G. Lange
9360!	+2	9404:	-12	+ 72	"

The O-C's are residuals from the following elements fitting most exactly the moments listed:

$$\text{Max. J.D.} = 2430904.3 + 116.654N + 0.01034N^2$$

$$\text{Min. J.D.} = 2430963.6 + 116.654N + 0.01034N^2$$

These elements indicate a lengthening of the secondary period of RZ Lyrae.

Odessa Astronomical Observatory  
March, 1967

Yu. ROMANOV

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