

New RR Lyrae Variables II

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#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	type	Sp	Comment	L.Curve	Find.Chart	Data
1		GSC 4352-00729	05 52 46.50, +72 51 15.9	RR	12.8	13.1	R	0.42720	2451521.899	max		Comm. 1	1.png	chart1.png	NSVS 652422
2		GSC 4367-01030	07 02 18.13, +72 08 52.6	RRAB	13.9	14.4	R	0.6282	2451526.64	max		Comm. 2	2.png	chart2.png	NSVS 672345
3		GSC 3028-00467	13 31 15.85, +40 56 56.8	RRAB	14.4	15.3	R	0.51423	2451422.846	max		Comm. 3	3.png	chart3.png	NSVS 5084141
4		GSC2.2 N13030309148	13 48 42.53, +41 55 07.9	RRAB	14.5	15.9	R	0.5451	2451396.56	max			4.png	chart4.png	NSVS 5090133
5		GSC 3035-00937	14 14 57.39, +39 19 23.9	RRC:	14.4	15.0	R	0.38107	2451395.565	max		Comm. 5	5.png	chart5.png	NSVS 5099579
6		GSC 3487-00685	15 04 27.36, +51 52 04.2	RRAB	13.4	14.6	R	0.47950	2451391.783	max		Comm. 6	6.png	chart6.png	NSVS 5140510
7		GSC 3059-00664	15 33 20.37, +43 44 27.2	RR	14.6	15.6	R	0.5705	2451387.87	max		Comm. 7	7.png	chart7.png	NSVS 5167763
8		GSC 4182-00914	15 40 40.67, +60 48 24.3	RRAB	13.5	14.2	R	0.63114	2451409.653	max		Comm. 8	8.png	chart8.png	NSVS 2792535 NSVS 2812099
9		GSC 3520-01015	17 18 21.88, +51 17 32.3	RRAB	14.3	15.4	R	0.60624	2451388.675	max		Comm. 9	9.png	chart9.png	NSVS 5308842
10		GSC 3521-01033	17 32 23.75, +51 40 47.3	RRAB	12.6	13.6	R	0.4376	2451408.805	max		Comm. 10	10.png	chart10.png	NSVS 5316661

Comments:

1. M-m = 0.20 P.

2. M-m = 0.25 P.

3. M-m = 0.15 P.

5. M-m = 0.35 P. A one-day alias period, 0.27596 d, is not excluded.

6. M-m = 0.11 P.

7. M-m = 0.3; P.

8. M-m = 0.15 P. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis. In the case of GSC 4182-00914, the use of these data considerably increases the number of available observations without deteriorating quality and allows us to determine the period more accurately.

9. M-m = 0.1 P.

10. $M-m = 0.2 P$.

Remarks:

I present the discovery of 10 new RR Lyrae variables. A search for variables was carried out in the publicly available data of the Northern Sky Variability Survey (NSVS, Wozniak et al., 2004, also see <http://skydot.lanl.gov/nsvs>). These observations were analyzed using the period-search software developed by Dr. V.P. Goranskij for Windows environment. The coordinates were drawn from the 2MASS catalog.

References:

Wozniak, P.R., Vestrand, W.T., Akerlof, C.W. et al., 2004, *Astron. J.*, 127, 2436