

Eight New RR Lyrae Variables

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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 2548-00251	14 02 27.04, +34 17 45.1	RRAB	14.0	14.5	R	0.7427	2451423.900	max		Comm. 1	1.PNG	chart1.PNG	NSVS 7710384
2		GSC 4172-00217	14 18 55.37, +62 02 57.6	RRAB	13.8	14.5	R	0.59323	2451429.822	max		Comm. 2	2.PNG	chart2.PNG	NSVS 2720898
3		GSC 3865-01262	14 28 55.07, +57 30 23.9	RRAB	14.1	14.9	R	0.6201	2451406.956	max		Comm. 3	3.PNG	chart3.PNG	NSVS 2739793
4		TYC 3863 00740 1	14 41 38.24, +56 26 17.1	RRC	11.4	11.75	R	0.197695	2451395.545	max		Comm. 4	4.PNG	chart4.PNG	NSVS 2743436
5		GSC 3860-00579	14 41 54.89, +53 56 47.9	RRAB	14.1	15.2	R	0.4563	2451382.927	max		Comm. 5	5.PNG	chart5.PNG	NSVS 2743872 NSVS 5133533
6		GSC 3065-02067	16 13 24.72, +41 09 48.5	RRC:	14.6	15.2	R	0.38464	2451374.520	max		Comm. 6	6.PNG	chart6.PNG	NSVS 5234294
7		GSC 2739-00538	22 38 22.26, +32 38 54.6	RRC	13.85	14.3	R	0.31168	2451434.701	max		Comm. 7	7.PNG	chart7.PNG	NSVS 8909981
8		GSC 2756-00461	23 18 06.72, +32 12 36.4	RRAB	14.2	15.2	R	0.55485	2451447.592	max		Comm. 8	8.PNG	chart8.PNG	NSVS 9022293

Comments:

1. $M-m = 0.25$; $J-H = 0.238$ (2MASS).
2. $M-m = 0.22$; $J-H = 0.221$ (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
3. $M-m = 0.18$; $J-H = 0.374$ (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
4. $M-m = 0.38$; $J-H = 0.123$ (2MASS), $B-V = 0.049$ (Tycho2).
5. $M-m = 0.23$; $J-H = 0.299$ (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
6. $M-m = 0.35$; $J-H = 0.174$ (2MASS).
7. $M-m = 0.32$; $J-H = 0.126$ (2MASS).
8. $M-m = 0.18$; $J-H = 0.293$ (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.

Remarks:

I present the discovery of eight 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 either from the Tycho-2 or from the 2MASS catalogs.

References:

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