

New RS CVn Stars without Eclipses 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		TYC 2323 00569 1	02 25 29.15, +30 41 50.5	RS	11.3	11.6	R	5.095	2451501.75	max		Comm. 1	1.PNG	chart1.PNG	NSVS 6526224 NSVS 6555193
2		TYC 2906 01122 1	04 56 39.17, +43 48 46.0	RS	9.6	9.9	R	52.	2451500.0	max		Comm. 2	2.PNG	chart2.PNG	NSVS 4358805
3		GSC 3035-00177	14 25 10.30, +39 20 00.6	RS	12.7	13.0	R	6.372	2451388.75	max		Comm. 3	3.PNG	chart3.PNG	NSVS 5103437 NSVS 7751118
4		GSC 3473-00174	14 32 41.24, +46 11 39.9	RS	12.09	12.24	R	6.862	2451411.68	max		Comm. 4	4.PNG	chart4.PNG	NSVS 5122418 NSVS 5129022
5		TYC 3486 00678 1	15 39 20.87, +47 45 23.9	RS	10.95	11.25	R	20.0	2451395.5	max		Comm. 5	5.PNG	chart5.PNG	NSVS 5190120 NSVS 5199439
6		GSC 3057-01742	15 57 49.58, +41 23 19.8	RS	12.82	13.13	R	15.9	2451393.0	max		Comm. 6	6.PNG	chart6.PNG	NSVS 5226603
7		GSC 3064-00711	16 06 50.60, +41 17 34.9	RS	12.9	13.1	R	0.58940	2451385.69	max		Comm. 7	7.PNG	chart7.PNG	NSVS 5231025
8		GSC 3522-00690	17 47 19.65, +51 33 18.5	RS	14.2	14.7	R	4.215	2451388.90	max		Comm. 8	8.PNG	chart8.PNG	NSVS 5393924

Comments:

1. X-ray source 1RXS J022526.9+304205.

2. Probably can be identified with the X-ray source 1RXS J045638.6+434820 (in 29"). B-V = 1.410 (Tycho2), J-K = 0.797 (2MASS). Types SR or CEP are not excluded. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis. The use of these data considerably increases the number of available observations without deteriorating quality and allows us to determine the period more accurately.

3. X-ray source 1RXS J142509.3+391953.

4. X-ray source 1RXS J143241.5+461132. Period P=1.1708d is not excluded.

5. X-ray source RX J1539.3+4745.

6. X-ray source 1WGA J1557.7+4123.

7. X-ray source 1RXS J160650.2+411729.

8. X-ray source 1RXS J174718.8+513310.

Remarks:

I present the discovery of 8 new RS CVn stars without eclipses. This classification is in agreement with the stars' relatively small amplitudes and with our identification of the stars with X-ray sources. 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 2MASS catalogs.

References:

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