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New RS CVn Stars Without Eclipses III

A. V. Khruslov
Russia, Tula

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(E-mail for contact: khruslov@bk.ru)

#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	type	Sp	Comment	L.Curve	Find.Chart	Data
1		GSC 1745-00823	00 55 08.32, +29 57 17.4	RS	11.7	11.85	R	3.313	2451492.95	max		Comm. 1	1.PNG	chart1.PNG	NSVS 6370202 NSVS 6396713
2		TYC 3001 01282 1, BD+38 2140	10 26 22.76, +37 45 12.9	RS	9.6	9.8	R	17.8	2451543.5	max		Comm. 2	2.PNG	chart2.PNG	NSVS 4911815 NSVS 7527053
3		GSC 3860-01169	14 44 38.30, +53 13 04.4	RS	10.95	11.15	R	72.	2451383.0	max		Comm. 3	3.PNG	chart3.PNG	NSVS 2744839 NSVS 5124274 NSVS 5134279
4		GSC 3495-01234	16 29 43.05, +48 22 23.8	RS	12.8	13.0	R	2.6615	2451394.87	max		Comm. 4	4.PNG	chart4.PNG	NSVS 5269975
5		GSC 4465-01410	21 32 53.89, +70 37 43.7	RS	12.05	12.33	R	22.7	2451488.6	max		Comm. 5	5.PNG	chart5.PNG	NSVS 1356712

Comments:

1. 1WGA J0055.1+2957. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.

2. RX J1026.3+3745. Frasca et al. (2006) point out that the star displays all the characteristics of a new BY Dra system. Their spectroscopic and photometric observations show it to be an SB1 K1IV star with the radial velocity period of 15.465 days; the data in the cited paper is not sufficient for a thorough study of the photometric variations.

3. 1RXS J144437.3+531314.

4. 1RXS J162943.5+482211.

5. 1RXS J213253.9+703751. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.

Remarks:

I present the discovery of 5 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:

Frasca, A., Guillout, P., Marilli, E., et al., 2006, Astron. Astrophys., 454, 301
Wozniak, P.R., Vestrand, W.T., Akerlof, C.W., et al., 2004, Astron. J., 127, 2436