

Three New Short-Period Pulsating 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		GSC2.2 N301312114431	05 44 05.82, +31 06 43.6	DSCT	14.5	15.3	R	0.052696	2451537.719	max		Comm. 1	1.PNG	chart1.PNG	NSVS 6989376
2		GSC 3883-00812	16 03 46.99, +57 41 47.8	RRAB	13.2	14.1	R	0.56376	2451409.519	max		Comm. 2	2.PNG	chart2.PNG	NSVS 2818985
3		GSC 3883-00304	16 07 37.40, +57 32 08.5	RRAB:	13.8	14.3	R	0.6127	2451392.94	max		Comm. 3	3.PNG	chart3.PNG	NSVS 2820292

Comments:

1. High Amplitude Delta Scuti variable. J-H = 0.392 (2MASS). M-m = 0.4.
2. J-H = 0.177 (2MASS). M-m = 0.19. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
3. J-H = 0.253 (2MASS). M-m = 0.25. Period 0.3799 d and type RRC are not excluded.

Remarks:

I present the discovery of 3 new short-period pulsating 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