

Three New 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 4550-01410	11 35 10.42, +75 05 46.8	SR	11.1	11.5	R	45.3	2451465.	max			1.PNG	chart1.PNG	NSVS 833440 NSVS 857199 NSVS 879225
2		TYC 4550 1408 1	11 40 01.41, +75 09 21.5	EA	11.4	11.8	R	1.23837	2451403.837	min		Comm. 2	2.PNG	chart2.PNG	NSVS 834025 NSVS 858151 NSVS 879987
3		GSC 4550-00626	11 45 01.29, +76 24 20.5	EB	13.45	14.1	R	0.9238	2451462.93	min		Comm. 3	3.PNG	chart3.PNG	NSVS 833118 NSVS 859326

Comments:

2. D = 0.14 P. MinII = 11.55.

3. MinII = 13.7.

Remarks:

We presents the discovery of 3 new variables. Our 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. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis. In the cases of GSC 4550-01410 and GSC 4550-00626, the use of these data considerably increases the number of available observations without deteriorating quality and allows us to determine the periods more accurately. The variables 1 and 2 were discovered by N. Biyalieva, the last one - by A. Khruslov.

References:

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