

Discovery of Three New Cepheids

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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 3709-00752	03 04 08.81, +57 17 53.7	DCEPS	12.75	13.05	R	3.058	2451505.10	max		Comm. 1	1.gif	chart1.gif	NSVS 1942726
2		GSC2.2 N312200122832	03 20 14.32, +55 06 57.1	DCEP	13.2	13.6	R	4.41	2451463.03	max		Comm. 2	2.gif	chart2.gif	NSVS 1956729
3		TYC 3728 01350 1	03 34 23.73, +58 24 50.0	DCEPS	9.62	9.88	R	3.6818	2451479.64	max		Comm. 3	3.gif	chart3.gif	NSVS 1965376

Comments:

1. $M-m = 0.45$ P, $b = -1.1$ deg.

2. $M-m = 0.33$ P, $b = -1.8$ deg.

3. $M-m = 0.5$: P, $b = +2.0$ deg., $B-V = 1.72$

Remarks:

We present the discovery of 3 new Cepheid (DCEP and DCEPS) 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 2MASS catalogs.

References:

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