

The First Determination of Light Elements for Seven NSV Stars

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#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	type	Sp	Comment	L.Curve	Find.Chart	Data
1	NSV 05594	IRAS 12218-6229	12 24 39.77, -62 45 50.4	M	11.8	<15.8	R	338	2453425	max		Comm. 1	5594lc.jpg	5594ch.jpg	5594R.DAT ASAS 122440-6245.8
2	NSV 05601	TYC 8235 1531 1	12 24 53.50, -47 09 07.5	SRD	7.84	8.04	V	60.6	2453582	max	F3Ib		5601lc.jpg	5601ch.jpg	ASAS 122454-4709.1
3	NSV 05631	TYC 4394 0384 1	12 27 43.08, +67 58 05.1	EA	11.58	12.22	R	1.71325	2451339.7026	min	A2	Comm. 3	5631lc.jpg	5631ch.jpg	NSVS 889684 NSVS 2648834 NSVS 2632399
4	NSV 05769	GSC 9236-2774	12 37 02.39, -72 38 37.6	M	11.8	<14.6	V	306	2453607	max	Me		5769lc.jpg	5769ch.jpg	ASAS 123702-7238.6
5	NSV 05918	UCAC2 00252409	12 45 56.89, -81 00 08.4	M	12.4	<15.0	V	202	2453003	max			5918lc.jpg	5918ch.jpg	ASAS 124554-8100.2
6	NSV 06003	GSC 7248-0931	12 52 23.83, -31 03 26.7	EW	13.8	14.7	V	0.323558	2451876.8519	min		Comm. 6	6003lc.jpg	6003ch.jpg	ASAS 125234-3103.4
7	NSV 10827	GSC 9076-2111	18 29 36.38, -64 54 39.6	M	11.9	<15.0	V	380	2453183	max			10827lc.jpg	10827ch.jpg	ASAS 182936-6454.6

Comments:

- In the light curve, our eye estimates of the variable's brightness on the red USNO archive images were reduced to the V photometric system of the ASAS-3 survey using V-R=1.0.
3. MinII=11.63, D=0.15P
6. MinII=14.5

Remarks:

In our work on the improvement of the coordinates for all stars in the NSV catalog, we succeeded in studying seven variable stars. We could find and study the variables thanks to the publicly available electronic archives of CCD observations of the ASAS-3 (Pojmanski, 2002) and ROTSE1/NSVS (Wozniak et al., 2004) surveys. We recovered the variables NSV 05769 and 05918 suspected by Luyten (1933) who had published only the variability ranges and very rough coordinates. The candidates were found using the US Naval Observatory Image Archive (<http://www.nofs.navy.mil/data/fchpix/>).

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References:

- Luyten, W.J., 1933, AN, 249, 396
Pojmanski, G., 2002, Acta Astronomica, 52, 397
Wozniak, P.R., Vestrand, W.T., Akerlof, C.W. et al., 2004, Astron.J., 127, 2436