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New Light Elements for 13 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 06627	GSC 6735-01066	14 19 39.35, -25 44 12.1	RRAB	13.8	15.2	V	0.504229	2453791.8258	max	A4-A8	Comm. 1	6627lc.jpg	6627ch.jpg	ASAS 141939-2544.2
2	NSV 06738	GSC 9432-02320	14 40 33.32, -78 19 14.6	RRC	13.8	14.5	V	0.328182	2454525.8443	max		Comm. 2	6738lc.jpg	6738ch.jpg	ASAS 144033-7819.2
3	NSV 06745	HV 8606	14 39 43.23, -49 39 51.3	RRAB	13.4	14.6	V	0.513924	2453880.8239	max		Comm. 3	6745lc.jpg	6745ch.jpg	ASAS 143943-4939.9
4	NSV 06826	S 8895	14 52 39.51, -71 04 26.6	EA	14.0	15.1:	V	1.87547	2452128.5119	min		Comm. 4	6826lc.jpg	6826ch.jpg	ASAS 145240-7104.4
5	NSV 06855	GSC 7832-02030	14 56 21.84, -44 54 07.5	EB	8.30	8.46:	V	1.136545	2454232.7007	min	B9	Comm. 5	6855lc.jpg	6855ch.jpg	ASAS 145622-4454.1
6	NSV 06863	GSC 9266-02374	14 59 37.97, -72 45 54.3	RRAB	13.4	14.0	V	0.489722	2454518.8231	max		Comm. 6	6863lc.jpg	6863ch.jpg	ASAS 145938-7245.9
7	NSV 07019	GSC 6182-01191	15 19 16.59, -22 09 43.8	EW	13.9	14.6	V	0.434556	2452056.6288	min		Comm. 7	7019lc.jpg	7019ch.jpg	ASAS 151917-2209.7
8	NSV 07094	GSC 6763-01060	15 29 01.86, -23 20 38.6	RRC	13.8	14.5	V	0.375482	2454652.6688	max		Comm. 8	7094lc.jpg	7094ch.jpg	ASAS 152902-2320.6
9	NSV 07141	GSC 6776-00081	15 35 03.85, -28 09 04.9	RRAB	11.3	12.0	V	0.583569	2454356.4962	max		Comm. 9	7141lc.jpg	7141ch.jpg	ASAS 153504-2809.1
10	NSV 07165	GSC 6185-01047	15 37 40.63, -15 25 32.7	RRC	13.1	13.7	V	0.354967	2452444.5837	max		Comm. 10	7165lc.jpg	7165ch.jpg	ASAS 153741-1525.5
11	NSV 07167	GSC 5600-00448	15 37 57.91, -10 19 54.1	RRC	13.3	13.8	V	0.377511	2454574.7434	max		Comm. 11	7167lc.jpg	7167ch.jpg	ASAS 153758-1019.9
12	NSV 07181	GSC 6193-01251	15 39 30.79, -19 42 51.0	EW	13.6	14.4	V	0.339013	2454652.7006	min		Comm. 12	7181lc.jpg	7181ch.jpg	ASAS 153931-1942.9
13	NSV 07215	GSC 7327-00977	15 43 44.72, -30 47 30.2	RRAB	13.3	13.9	V	0.616758	2454295.6422	max		Comm. 13	7215lc.jpg	7215ch.jpg	ASAS 154345-3047.5

Comments:

1. M-m = 0.15.

2. M-m = 0.31.

3. M-m = 0.10. Suspected by Luyten (1935); no finding chart previously published. We were able to recover the variable.

4. MinII = 14.9:, D = 0.12.

5. MinII = 8.43:.

6. M-m = 0.14. The ASAS-3 range is for the combined brightness of the variable star and its neighbor.

7. MinI = MinII. A twice shorter period and type RRC are possible.

8. M-m = 0.40.

9. M-m = 0.28. The ASAS-3 range is for the combined brightness of the variable star and its neighbor.

10. M-m = 0.34. This star was studied by Otero (2008) on the same material and with essentially the same results, but he erroneously identified the star with 2MASS J15375108-1522120, and the variable's coordinates published by him are wrong by more than 4 arcminutes.

11. M-m = 0.45. A twice longer period and type EW are possible.

12. MinII = 14.2.

13. M-m = 0.30. The ASAS-3 range is for the combined brightness of the variable star and its neighbor.

Remarks:

We could study the variables thanks to the publicly available electronic archives of CCD observations of the ASAS-3 project (Pojmanski, 2002) and the US Naval Observatory Image and Catalogue Archive (http://www.nofs.navy.mil/data/FchPix/).

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