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OBJECTIVE-PRISM DISCOVERIES IN A REGION OF THE MILKY WAY

An inspection of twelve  $8^{\circ}$ -prism plates taken with the 70-cm meniscus telescope of the Abastumani Astrophysical Observatory (USSR) has yielded a number of hitherto unrecognized peculiar or otherwise interesting stars. The region surveyed is of about 60 square degrees, its center being in the association Vulpecula OB4. The reciprocal dispersion of the spectrograms is  $166 \text{ \AA/mm}$  at H $\gamma$  and the spectra are widened to 0.4 mm. The exceptional seeing at Abastumani together with the high quality of the spectra allows peculiar star discoveries with a great certainty (Kharadze, E.K., and Bartaya, R.A., 1973, IAU Symp., 50, 91). Many of these are of sufficient interest to justify early publications.

The stars suspected of being either of type Ap or Am, as well as two composite objects are listed in Table I. The BD numbers and magnitudes are given; the numbers in the SAO catalogue are also noted if they exist. In the last column the observed peculiarities in the spectra are indicated; a semi-colon is added for stars whose peculiarity is discerned on a single plate.

Most of the peculiar stars found are of the classical varieties but some may represent something new. Nevertheless, a higher-resolution study of these and other objects in the list is obviously desirable in order to check their peculiarity and to assign to them a more precise type.

TSVETANKA RADOSLAVOVA  
Department of Astronomy and  
National Astronomical Observatory  
Bulgarian Academy of Sciences  
72 Lenin Blvd., 1784 Sofia, Bulgaria

Table I

BD No.	m	SAO No.	Remarks and type
+20 <sup>o</sup> 4159	9.5	-	Ap or F0p, $\lambda\lambda$ 4128, 4077
4191	8.7	087400	Ap, $\lambda\lambda$ 4128, 4077
4330	9.2	-	Ap, $\lambda$ 4128
+21 <sup>o</sup> 3798	9.4	-	Am
3910	8.9	087721	Am:
3977	9.5	-	A + F composite
3983	9.3	-	A + G: composite
3996	9.3	-	Ap: , $\lambda\lambda$ 4128, 4077
+22 <sup>o</sup> 3827	8.5	-	Am:
3858	9.4	-	Am
+24 <sup>o</sup> 3769	9.2	087298	Ap, $\lambda\lambda$ 4128, 4077
3780	8.8	087366	Ap, $\lambda\lambda$ 4128, 4077
3810	9.0	087452	Ap, $\lambda$ 4128
+25 <sup>o</sup> 3918	9.1	087547	Ap: or Am:, $\lambda$ 4128
3942	9.4	-	Am or Ap
4028	9.5	-	Ap, $\lambda\lambda$ 4128, 4077
+26 <sup>o</sup> 3581	9.5	-	Am
3698	8.9	087849	Am:
+27 <sup>o</sup> 3439	9.4	-	Am
3515	9.0	087724	Am
3567	9.3	-	Am:
+28 <sup>o</sup> 3421	9.3	087502	Am