

Southern B-type stars with emission at H-alpha

BORIS KUCEWICZ

Observatorio Astronómico - La Plata

Resumen: Se informa el descubrimiento de ocho estrellas australes con emisión en H α .

Several years ago a program was started for the search of H-alpha emission in early type stars. It was decided to observe all stars of the "Bright Star Catalogue" south of the equator, falling in the spectral range O-A0. All observations were made with the 2 prism spectrograph attached to the 32" La Plata reflector. A camera giving a reciprocal dispersion of 180 Å/mm at H-alpha was used. The total number of stars in the program is 1454 of which 1219 were already observed. Partial results of the survey were published already. (Jaschek, Jaschek and Kucewicz 1962; Kucewicz 1963; Jaschek, Jaschek and Kucewicz 1964; Kucewicz 1965; Kucewicz 1967). The purpose of this note is to announce eight new emission line objects found among the last 318 stars observed, which correspond mainly, although not exclusively to the spectral range B5-A0.

The main results are contained in table I.

The first two columns provide the star identifications. The third, fourth and fifth give the visual magnitude, spectral type and radial velocity as taken from the "Bright Star Catalogue" (Hoffleit, 1964). The last four columns refer finally to the emission line. The sixth column gives the

Julian date of the observation, the seventh the radial velocity of the H-alpha line, the next to last the width of the emission, in Km/sec and the last a visual estimate of the line intensity. The scale for this estimate is s = strong; m = medium and w = weak.

TABLE I

New emission line stars

HR	HD	m	Sp. t.	V	J.D. 2430000+	V α	W	Int.
2501	49131	5.79	B3V	+ 17?	10968	+ 21	310	m
2656	53240	6.44	B8	+ 28	11358	+ 29	210	s
3022	63215	5.88	B9	+ 28	11038	- 197	320	w
4147	91619	6.14	B5Ia	+ 7	11074	+ 23	650	w
4169	92207	5.46	A0Ia	- 12	11062	+ 57	330	m
4250	94367	5.25	A0Ia	- 23	11056	- 166	450	w
4262	94650	5.98	B8		11376	- 12	440	w
4438	100198	6.36	A0Ia		11082	+ 55	340	m

I would like to express my thanks to Dr. C. Jaschek who suggested this observing program.

BIBLIOGRAPHY

- C. Jaschek, M. Jaschek and B. Kucewicz, 1962, *Bol. Asoc. Arg. de Astr.* 4, 37.
- B. Kucewicz, 1963, *Publ. Astr. Soc. Pac.* 75, 192.
- C. Jaschek, M. Jaschek and B. Kucewicz, 1964, *Zeitsch. f. Astroph.* 59, 108.
- B. Kucewicz, 1965, *Bol. Asoc. Arg. de Astr.* 10, 63.
- B. Kucewicz, 1967, *Information Bulletin for the Southern Hemisphere*, 11, 34.