according to their respective heliographic latitudes and times of central meridian passage. The length of the last sun-spot cycle was therefore only 10.3 years, nearly a year less than the average length of the cycle.

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Five Stars Having Spectra of Class Be

By F. J. Neubauer

The following five stars on my program for the determination of the radial velocities of the fainter Class B stars have been found to have spectra containing emission lines of hydrogen. As these stars are not given in Merrill's *Catalogue of Classes* Be *and* Ae,¹ it is probable that the presence of emission lines in their spectra has not been observed previously.

HDC	a (1900) h m	δ (1900)	1	b	mg	Spectral Class	No. of Plates
42259	6 4.6	– 5° 3'	180°	-10°	8.4	B3ne	б
46380	6 27.9	- 7 26	185	· - 6	8.4	B3ne	5
47761	6 35.1	- 4 36	184	- 3	8.5	B0e	6
48282	6 37.5	-10 24	189	- 5	9.0	B5ne	5
51193	6 51.3	- 3 40	185	+ 1	8.7	B3ne	3

REMARKS: HDC 42259. H β emission is slightly more intense than continuous background, while those of H γ and H δ are of about the same intensity as the adjacent continuous spectrum.

HDC 46380. The emission lines vary in intensity from plate to plate. Interstellar H and K lines.

HDC 47761. H β emission is considerably more intense than the adjacent continuous spectrum. The absorption lines are sharp except 4471. H γ and H δ appear also as emission lines. Interstellar H and K lines.

HDC 48282. H β emission is more intense than the adjacent continuous spectrum. The absorption lines are very faint and nebulous.

HDC 51193. The hydrogen emission character is present as far as H δ . The absorption lines are very indistinct and nebulous.

The spectrograms were obtained with one or two-prism spectrographs (1 mm = 75 A) attached to the 36-inch refractor. No observations were secured in the visual region of the spectrum.

¹ Contributions from Mount Wilson Observatory, 21, 389-442, 1934.