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THE UNUSUAL SPECTRUM OF CSV 1855

The faint southern star No. 1855 in the 1951 Catalogue of Stars Suspected of Variability, discovered by Hoffmeister to range from $m_{pg}=11$ to 13, is contained, though not so noted, in Wackerling's (1970) catalogue of early-type emission-line stars and in Stephenson and Sanduleak's (1971) list of luminous stars in the Southern Milky Way. It was found to show bright $H\alpha$ by Henize and Wray and by Stephenson and Sanduleak, and the latter further noted the presence of line emission in the blue spectral region.

A recent inspection of an excellent 60-minute blue objective-prism plate taken by N. Sanduleak on Feb. 25, 1968 with the Curtis Schmidt at Cerro Tololo indicates that this star shows several fairly strong unusual emission features, probably due to Fe II, in addition to very strong $H\beta$ and moderately strong $H\gamma$. The emission lines are not seen below $H\delta$, and the spectrum is nearly continuous at shorter wavelengths. Comparison of this exposure with earlier plates taken in June and July 1967 for the Southern OB Survey, which are less well exposed, indicates little spectrum or magnitude change. In view of the variability of the object, a possible similarity with XX Ophiuchi is suggested.

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References:

Stephenson, C.B. and Sanduleak, N. 1971, Publications of the Warner and Swasey Observatory, Vol. 1, No. 1. The object, which is No. 2662 in this catalogue, is to be found on Chart 39. Its coordinates are: $\alpha = 12^h 17^m 55.s8$, $\delta = -62^{\circ} 05' 1''$ 1900 .
Wackerling, L.R. 1970, Mem. Roy. Astr. Soc. 73, 153.