

A W I D E P A I R O F M e D W A R F S

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The wide common-proper-motion double star L 574-61/62† was originally found by W. J. Luyten in the Bruce Proper Motion Survey. It was noted independently by Haro on a 1959 Tonantzintla objective prism spectrogram, where the brighter star showed strong bright Balmer and *Ca* II lines. On the same plate, emission $H\beta$, $H\gamma$, and $H\delta$ were visible in the fainter component as well.

Two low-dispersion slit spectrograms of each star have now been obtained with the Crossley reflector of Lick Observatory. These plates also show H and *Ca* II emission in the brighter star, and give a spectral type of dM3e. The fainter component is dM4e, with somewhat weaker H and *Ca* II emission lines, although there is some suspicion that the bright lines changed in intensity between the two exposures, which were made about 5 weeks apart.

The spectroscopic absolute magnitudes, together with Luyten's apparent magnitudes for the two components, correspond to a distance of about 17 parsecs, or a parallax of about 0".06. The system deserves a good trigonometric parallax determination.

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† α (1900) = 22^h 39^m 4, δ (1900) = -33° 47'; m_{pg} = 13.0 and 14.4; μ = 0".22 in p. a. 116°. The color classes of both components are given as m by Luyten in the LTT Catalogue, and the separation as 37" in 131°. The brighter component is L 574-62 = LTT 9174 = BPM 67828; the fainter star is L 574-61 = LTT 9175 = BPM 67829.