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A NEW PROBABLE Be STAR ALPHA Leo

Spectroscopic observations of α Leo have been carried out. This study has been done under our program of spectroscopic observations of Be stars. Suspected variability appears to be a valuable clue in finding new emission stars. Irvine (1975) observed 43 stars, $v \sin i \geq 300$ km, with a 91 cm Cassegrain spectrograph at a dispersion of 67 \AA/mm in the $H\alpha$ region on 103 A Kodak emulsion. Spectra were widened to 300 or 600 μm . This investigation led to five new and one probable (19 Mon, HR 2648) emission stars. However, Irvine (1975) could not detect emission in $H\alpha$ in α Leo and predicted it would be an excellent candidate for Be star.

We obtained 7 spectra of α Leo, with the 50 cm reflecting telescope, at Cassegrain focus, with plane grating spectrograph at a dispersion of 17.2 \AA/mm at $H\alpha$ on 09802 Kodak photographic plates, widened 800 μm . These spectra were taken on February 22 (two), February 23 (two), February 26 (one), April 8 (two), 1981. On February 22 and 23, we could notice weak emission with central reversal, out of these we are presenting four density tracings in Figure 1. From Figure 1, we conclude that α Leo has variable $H\alpha$ profile, with variable weak centrally reversed emission.

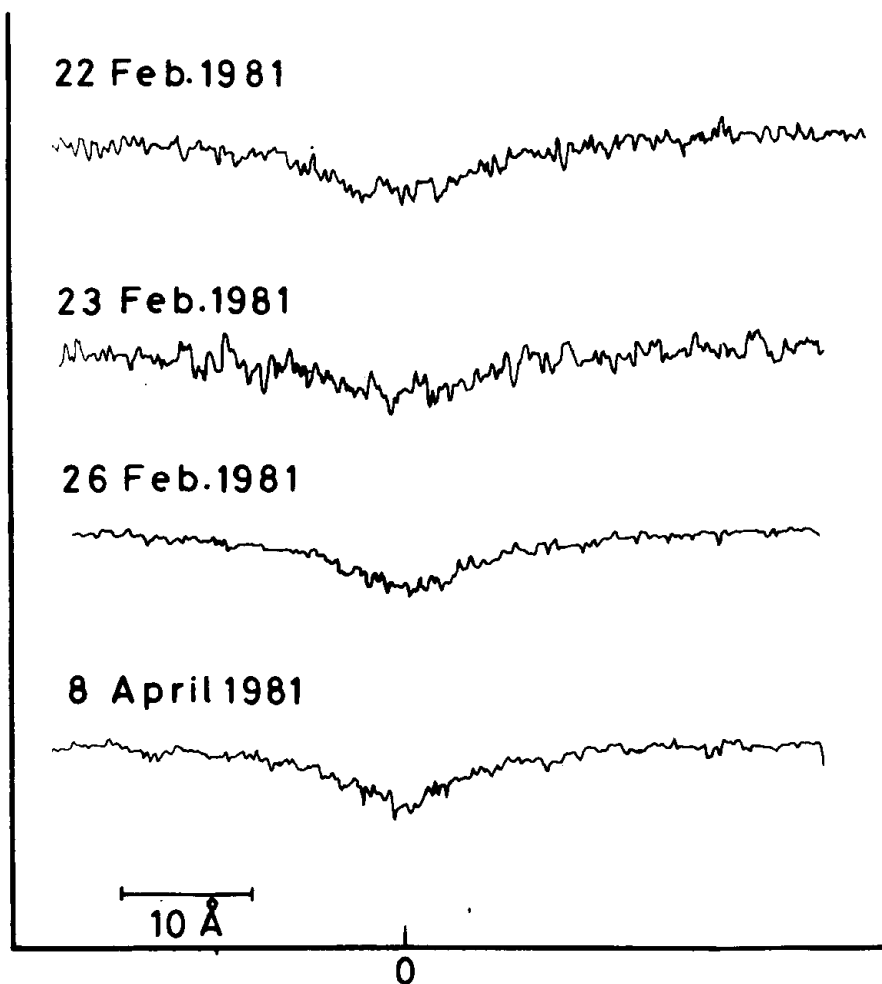


Figure 1: H α density tracings

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Reference:

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