

**CONTRIBUTIONS**

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**THE UV SPECTRUM OF THE Be STAR HD 50138**

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**ABSTRACT**

The IUE satellite was used to record the high resolution ultraviolet spectrum ( $\lambda \sim 1250 - 3180 \text{ \AA}$ ) of the Be star HD 50138. The most prominent spectral features of this object belong to various ionisation stages and show very different line profiles. Those due to the Si IV resonance lines are wide and asymmetrical, giving evidence of an expansion of the atmosphere in which they are formed (Vedge = 600 km/s). The Mg II resonance lines show a longward emission profile quite unusual for a Be star, which could be caused by a fluorescence mechanism driven by Ly  $\beta$ .

The lines due to Fe II show a complete shell spectrum (about 300 lines are identified), indicating a small but definite expansion. In the long wavelength range, a clear emission is seen for the most intense Fe II multiplets and is probably related to the decrease of the continuum.

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