

HD 6474: AN UU Her SPECTRUM VARIABLE?

The star HD 6474 (=V 487 Cas) is a yellow semiregular variable of small amplitude observed recently by Zsoldos (1993) who showed that it belongs to the small group of UU Her type variables, which comprises UU Her, V 487 Cas and perhaps BL Tel.

The star has been classified as G0 Iab (Bidelman, 1951), G0 Ia (Nassau and Morgan, 1952), and G4 Ia (Keenan and McNeil, 1976). The latter classification is based upon plates taken in 1972 (August 16 and December 22) and 1973 (July 24). The 1973 spectrum is reproduced on plate N.4 of Keenan-McNeil Atlas.

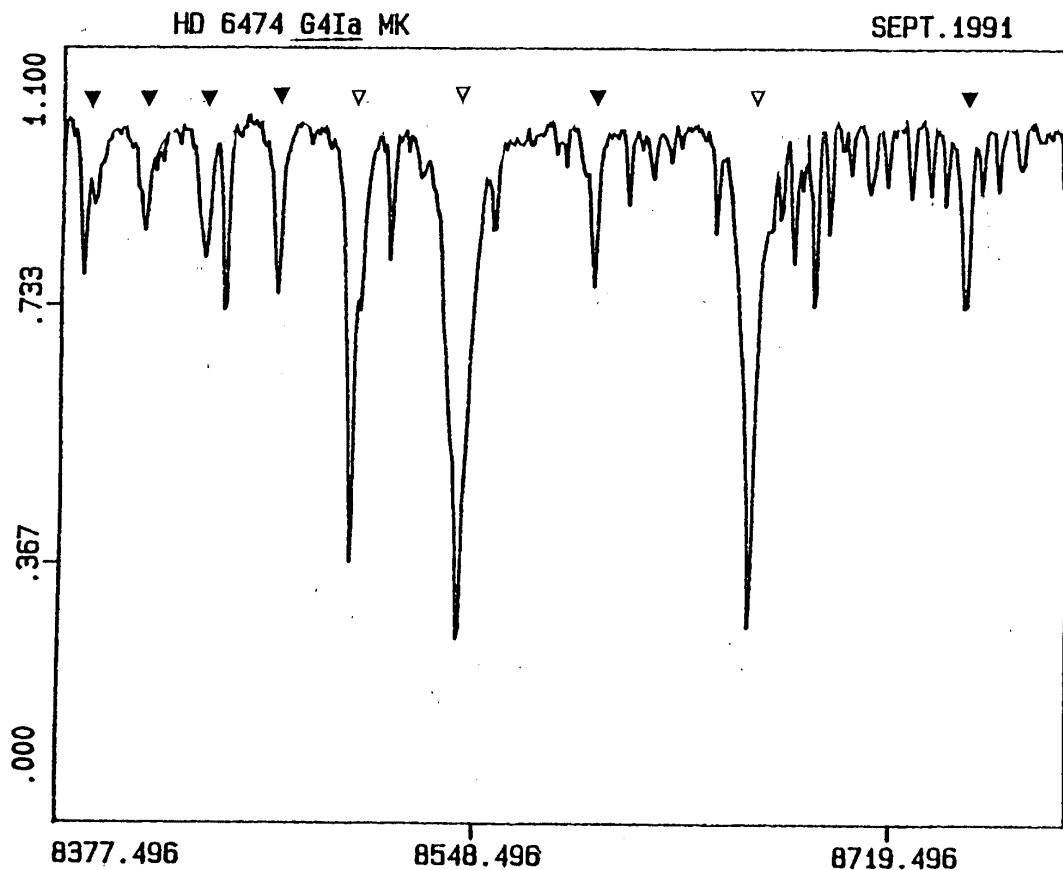


Figure 1. The spectrum of HD 6474 or a rapid orientation the Paschen lines from P12 to P20 are marked with black triangles and the Paschen lines blended with Ca II are marked with triangles. For fixing the spectral type, the figure should be compared with those contained in "An Atlas of the infrared spectral region" by Y. Andrillat, C. Jaschek, M. Jaschek, accepted for publication in AA Suppl.

A CCD spectrum of this object was obtained at the Observatoire de Haute Provence in September 1991 in the infrared region for the purpose of establishing an Atlas in the 8400-8800 Å region. The dispersion of the spectrogram is 33Å/mm. By comparison with other MK standards it turns out that the spectrum is now definitely earlier than G0 – we have classified it as F9 Ia. It seems thus very likely that the star is a spectrum variable and further observations of this star and of the group members are highly desirable.

M. JASCHEK*
C. JASCHEK*
P. KEENAN**
N. GINESTET***
J. M. CARQUILLAT***

* Observatoire de Strasbourg, France
** Ohio State Observatory, US
*** Observatoire Midi-Pyrénées, France

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