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THE H β EMISSION OF PU Vul

The peculiar nova-like variable PU Vul was observed with the grating spectrograph attached to the 1-m reflector at Yunnan Observatory in September, 1981 and October, 1982. The spectral class of this star was about K without any emissions in September, 1981. But H α was found in emission in October, 1982 (Liu Zongli, Hao Xiangliang and Mei Bao, I.B.V.S. No. 2291, 1983).

This star was observed using the grating spectrograph attached to the 60/90-cm Schmidt telescope at Peking Observatory on August 29 and September 1, 1983. The two spectra which were obtained on August 29 were essentially similar to those obtained in October, 1982. But the absorption lines of two spectra which were obtained on September 1 were weaker and the emission features were stronger than before and H β appeared in emission.

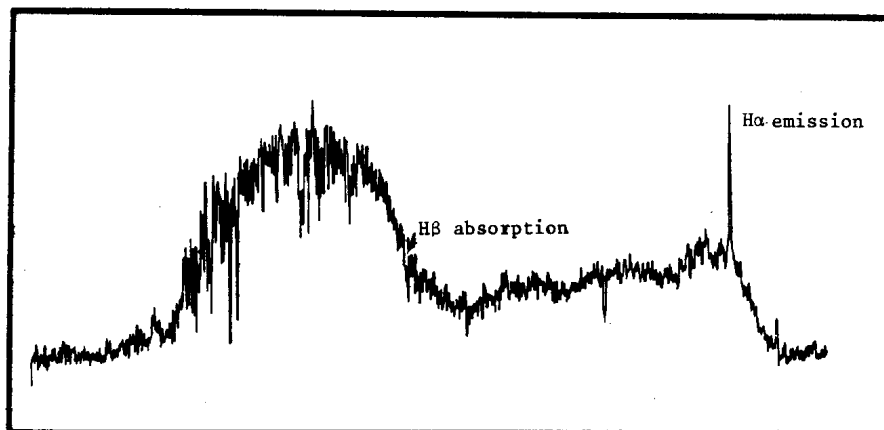


Figure 1a. Tracing of spectrum on 30 October 1982

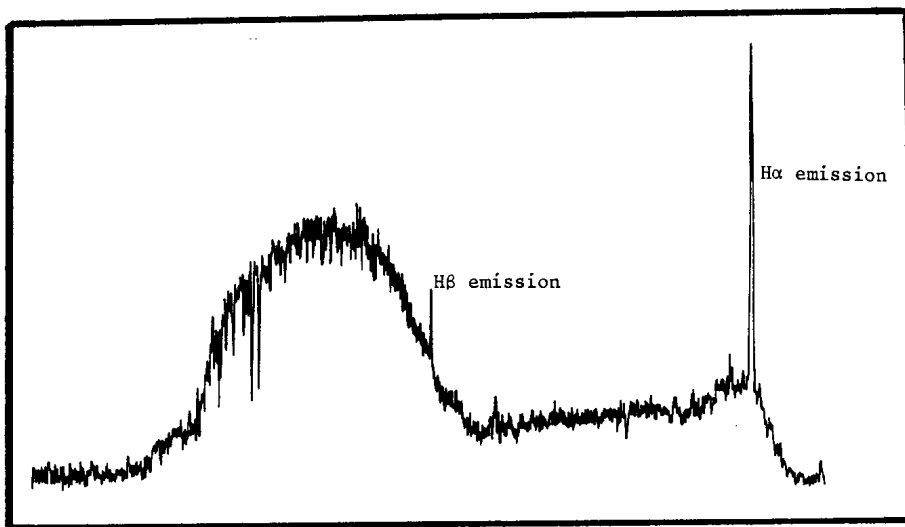


Figure 1b. Tracing of spectrum on 9 October 1983

We observed this star again with the grating spectrograph attached to the 1-m reflector at Yunnan Observatory in October, 1983, obtaining six plates. The emission lines in all these spectra become so strong that one can readily see both the H α and H β in emission.

The tracings of the spectra obtained on October 30, 1982 and October 9, 1983 are presented in Figure 1.

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