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A NOTEWORTHY STAR IN SERPENS

In the course of a search for galaxies with ultraviolet continuum on plates obtained at Byurakan 40" Schmidt-camera with a low-dispersion objective prism survey, we have discovered a new variable star whose brightness in comparison to POSS was about four magnitudes brighter corresponding thus to $m_v = 14^m$.

On slit spectra ($D=200 \text{ \AA}/\text{mm}$) taken with the Byurakan 2.6 m telescope on June 6, 1978 we discovered the following very strong and broad emission lines: HeII 4686, HeI 6678, 5875, 4471, 3888, H_α - H_ϵ . There are no forbidden or absorption lines, and it is necessary to note that all emission lines are broad. The total width of H_α line on the continuous spectrum level is about 70 \AA , which corresponds to an expansion velocity of more than 3000 km/sec. We obtained only one spectrum in red and one spectrum in blue regions.

Using the plates of several co-workers of Byurakan Observatory we followed the behaviour of the star from May 1965 and established that the star's brightness in the period from May 1965 to May 1979 was about $m_v=14^m$.

We do not have any data in the period from April 1950 (POSS) to May 1965, so that it is not possible to establish when and how the brightening took place.

From its flare amplitude, long time sojourn on this higher level of brightness and the presence of only wide permitted lines, we have not succeeded to adhere this star to any class of flare stars.

Identification chart in red colour reproduced from POSS and coordinates for the epoch 1950 are given below. North is at the top, east is to the left. The field is approximately $16' \times 16'$.

RA = 15^h35^m44^s Decl. = +19°01' 30"



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