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SPECTROSCOPIC STUDY OF THE BINARY SYSTEM HD 153919

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ABSTRACT. We report preliminary results on HD 153919. It was observed at SAAO on June 17-25, July 15-22, 1986, covering four complete cycles with the RPCS of the 1.9 m telescope. UV spectra were also obtained with the IUE satellite on 22 July, 1986. The most outstanding features of UV spectra are: 1-SiIV: with a P Cyg asymmetric profile, and with a wide and strong absorption component that has radial velocities of about -1800 km/sec thus indicating the presence of the envelope and perhaps gaseous streams. C IV: on the contrary, does not show us the features, because the two components are too close together. 2-One non-identified emission line in λ2483 that shows variations in intensity in one hour, may perhaps be related to the x-ray source. In optical spectra, we observed, at phase 0.75, one strong and wide component of HeI-D3 a radial velocity -700 km/sec. We have not reached any definite conclusion, as yet; we are continuing analyzing and studying all the data obtained through the observations.

Key words: LINE-PROFILE -- STARS-BINARY

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