

1RXS J180834.7+101041: A NEW CATAclySMIC VARIABLE WITH NON-UNIFORM DISC

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Results of photometric and spectroscopic investigations of the recently discovered disc cataclysmic variable star 1RXS J180834.7+101041 are presented. Emission spectra of the system show broad double-peaked hydrogen and helium emission lines. Doppler maps for the hydrogen lines demonstrate strongly non-uniform emissivity distribution in the disc, similar to that found in IP Peg. This means that the system is a new cataclysmic variable with possible spiral density waves in the disc. Masses of the components ($M_{\text{WD}} = 0.8 \pm 0.22 M_{\odot}$ and $M_{\text{RD}} = 0.14 \pm 0.02 M_{\odot}$), and the orbit inclination ($i = 78^{\circ} \pm 1.^{\circ}5$) were estimated using various well-known relations for cataclysmic variables.