

CHARACTERIZATION OF THE ACCRETION DISC IN V1040 CEN

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V1040 Cen is a high inclination, non-eclipsing dwarf nova. We observed it with the High Resolution Spectrograph on the South African Large Telescope (SALT), covering the whole orbital period. Using diagnostic diagram method we recovered orbital parameters of the system like phase zero, semi-amplitude of the primary's radial velocity and the systemic velocity. We reconstructed brightness maps of the accretion disc in the Hydrogen and Helium emission lines using Doppler tomography technique. Using the same methods, we also analyzed the archival dataset from VLT UVES, which was obtained 10 years before our SALT observations. This allowed us to compare our results between these two observing periods.