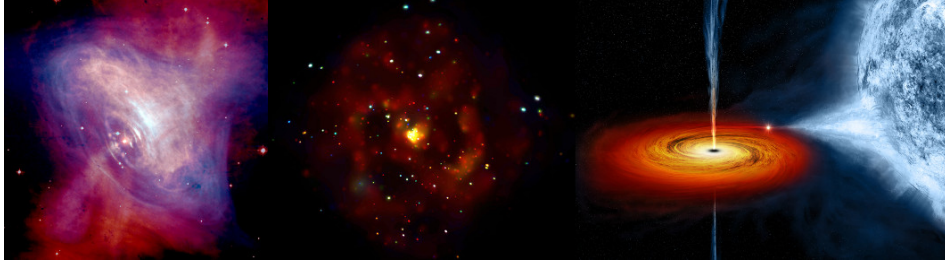


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Change in accretion flow in an Intermediate Polar V709 Cas

We have carried detailed time-resolved timing analysis of an intermediate polar V709 Cas, using the long-baseline, short cadence optical photometric data from the Transiting Exoplanet Survey Satellite (TESS). We found an orbital period of 5.332965 ± 0.000007 hr, a spin period of 312.7488 ± 0.0004 sec and a beat period of 317.9265 ± 0.0004 sec, which are similar and more precise than the earlier published results. From the continuous data, we report the system's accretion geometry as disc overflow with disc-fed dominance with some part of it being also stream-fed. The double peaked pulse profile nature shows it being a two pole accretor.

Presentation Type

Poster

Primary author: RAO, Srinivas M (Aryabhata Research Institute of Observational Sciences, Nainital)

Co-authors: Dr PANDEY, Jeewan C (Aryabhata Research Institute of Observational Sciences, Nainital); Ms RAWAT, Nikita (Aryabhata Research Institute of Observational Sciences, Nainital)

Presenter: RAO, Srinivas M (Aryabhata Research Institute of Observational Sciences, Nainital)

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