Astronomy and Astrophysics 2005 vol.444 N2, pages 561-564

INTEGRAL broadband X-ray spectrum of the intermediate polar V709 Cassiopeiae

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Abstract

We present the hard X-ray time-averaged spectrum of the intermediate polar V709 Cas observed with INTEGRAL. We performed the observation using data from the IBIS/ISGRI instrument in the 20-100 keV energy band and from JEM-X at lower energy (5-20 keV). Using different multi-temperature and density X-ray post-shock models we measured an improved post-shock temperature of ~40 keV and estimated the V709 Cas mass to be 0.82-0.25 +0.12 M⊙. We compare the resulting spectral parameters with previously reported BeppoSAX and RXTE observations. © ESO 2005.

http://dx.doi.org/10.1051/0004-6361:20054002

Keywords

Binaries: general, Stars: individual: V709 Cas - X-rays: stars