arXiv.org > astro-ph > arXiv:1107.0201

Search or Article-id

(Help | Advanced search)

All papers



Astrophysics > High Energy Astrophysical Phenomena

Unveiling the nature of IGR J17177-3656 with X-ray, NIR and Radio observations

A. Paizis, M. A. Nowak, J. Wilms, S. Chaty, S. Corbel, J. Rodriguez, M. Del Santo, P. Ubertini, R. Chini

(Submitted on 1 Jul 2011)

We report on the first broad-band (1-200 keV) simultaneous Chandra-INTEGRAL observations of the recently discovered hard X-ray transient IGR J17177-3656 that took place on 2011, March 22, about two weeks after the source discovery. The source had an average absorbed 1-200 keV flux of about 8x10^(-10) erg cm^(-2) s^(-1). We extracted a precise X-ray position of IGR J17177-3656, RA=17 17 42.62, DEC= -36 56 04.5 (90% uncertainty of 0.6"). We also report Swift, near infrared and guasi simultaneous radio follow-up observations. With the multi-wavelength information at hand, we propose IGR J17177-3656 is a low-mass X-ray binary, seen at high inclination, probably hosting a black hole.

Comments: 8 pages, 8 figures, accepted for publication in ApJ

High Energy Astrophysical Phenomena (astro-ph.HE) Subjects:

Cite as: arXiv:1107.0201v1 [astro-ph.HE]

Submission history

From: Adamantia Paizis [view email] [v1] Fri, 1 Jul 2011 11:46:05 GMT (169kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

Download:

- PDF
- PostScript
- Other formats

Current browse context: astro-ph.HE

< prev | next > new | recent | 1107

Change to browse by:

astro-ph

References & Citations

- **SLAC-SPIRES HEP** (refers to | cited by)
- NASA ADS

Bookmark(what is this?)











