



Further INTEGRAL observations of the transient X-ray burster EXO 1745-248

Chenevez, J.; Kuulkers, E.; Alfonso-Garzon, J.; Beckmann, V.; Bird, T.; Bordas, P.; Brandt, S.; Courvoisier, Th.; Santo, M. Del; Domingo, A.

Total number of authors:
20

Publication date:
2010

Document Version
Publisher's PDF, also known as Version of record

[Link back to DTU Orbit](#)

Citation (APA):

Chenevez, J., Kuulkers, E., Alfonso-Garzon, J., Beckmann, V., Bird, T., Bordas, P., Brandt, S., Courvoisier, T., Santo, M. D., Domingo, A., Ebisawa, K., Ferrigno, C., Jonker, P., Kretschmar, P., Markwardt, C., Oosterbroek, T., Paizis, A., Pottschmidt, K., Sanchez-Fernandez, C., & Wijnands, R. (2010, Oct 11). Further INTEGRAL observations of the transient X-ray burster EXO 1745-248. The Astronomer's telegram No. ATel #2924 <http://www.astronomerstelegam.org/?read=2924>

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Further INTEGRAL observations of the transient X-ray burster EXO 1745-248

ATel #2924; [J. Chenevez \(DTU Space, Denmark\)](#), [E. Kuulkers \(ESA/ESAC, Spain\)](#), [J. Alfonso-Garzón \(LAEX-CAB/INTA-CSIC, Spain\)](#), [V. Beckmann \(APC, France\)](#), [T. Bird \(Southampton, UK\)](#), [P. Bordas \(ISDC/IAAT, Switzerland\)](#), [S. Brandt \(DTU Space, Denmark\)](#), [Th. Courvoisier \(ISDC, Switzerland\)](#), [M. Del Santo \(INAF/IASF-Roma, Italy\)](#), [A. Domingo \(LAEX-CAB/INTA-CSIC, Spain\)](#), [K. Ebisawa \(ISAS, Japan\)](#), [C. Ferrigno \(ISDC, Switzerland\)](#), [P. Jonker \(SRON, The Netherlands\)](#), [P. Kretschmar \(ESA/ESAC, Spain\)](#), [C. Markwardt \(GSFC, USA\)](#), [T. Oosterbroek \(ESA/ESTEC, The Netherlands\)](#), [A. Paizis \(INAF-IASF, Italy\)](#), [K. Pottschmidt \(UMBC/NASA GSFC, USA\)](#), [C. Sánchez-Fernández \(ESA/ESAC, Spain\)](#), [R. Wijnands \(UvA, The Netherlands\)](#)

on 11 Oct 2010; 17:55 UT

Password Certification: Jerome CHENEVEZ (jerome@dsri.dk)

Subjects: X-ray, Gamma Ray, Binary, Globular Cluster, Neutron Star, Transient
Referred to by ATel #: [2929](#), [2932](#), [2933](#), [2939](#), [2940](#), [2946](#), [2952](#), [2958](#), [2974](#), [3000](#), [3044](#)

INTEGRAL performed further observations as part of the Galactic Bulge monitoring program (see ATel #[438](#)) on 2010 October 11 between (UTC) 02:25 and 06:07. The X-ray source in outburst in the direction of the globular cluster Terzan 5, EXO 1745-248 (ATels #[2919](#), #[2920](#) and #[2922](#)), is detected with both JEM-X 1&2, and with IBIS/ISGRI.

A re-analysis of the observations performed on 2010 October 10 from (UTC) 08:45 to 12:26 (ATel #[2919](#)), shows that the source was detected in the JEM-X monitor at a position (RA=267.023, DEC=-24.781, with a 90% confidence error of 1 arcmin) consistent with the known X-ray burster EXO 1745-248 (Heinke et al. 2003, ApJ, 590, 809). At that time the flux was 9 +/- 5 mCrab (3-10 keV) and 33 +/- 9 mCrab (10-25 keV). The observations on October 11 shows that within a day the flux has increased to 34 +/- 7 mCrab (3-10 keV), 49 +/- 4 mCrab (10-25 keV), 52 +/- 2 mCrab (18-40 keV), and 49 +/- 5 mCrab (40-100 keV).

We detected one type I X-ray burst, on 2010 October 11 06:27, which lasted for about 20 sec. This strengthens EXO 1745-248 to be in outburst, as it is a known (transient) X-ray burster.

[*INTEGRAL Galactic Bulge monitoring program*](#)