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# INTEGRAL/JEM-X detects a new outburst of the Rapid Burster (MXB 1730-335)

ATel #4848; [J. Chenevez \(DTU Space, Denmark\)](#), [E. Kuulkers \(ESA/ESAC, Spain\)](#), [J. Alfonso-Garzon \(CAB/INTA-CSIC, Spain\)](#), [V. Beckmann \(APC, France\)](#), [T. Bird \(Southampton, UK\)](#), [S. Brandt \(DTU Space, Denmark\)](#), [M. Del Santo \(INAF/IAPF-Roma, Italy\)](#), [A. Domingo \(CAB/INTA-CSIC, Spain\)](#), [K. Ebisawa \(ISAS, Japan\)](#), [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. Sanchez-Fernández \(ESA/ESAC, Spain\)](#), [R. Wijnands \(UvA, The Netherlands\)](#)  
 on 1 Mar 2013; 16:34 UT

Credential Certification: Jerome CHENEVEZ (jerome@space.dtu.dk)

Subjects: X-ray, Binary, Neutron Star, Transient

The neutron star X-ray transient MXB 1730-335, aka the Rapid Burster, has been detected in outburst by the JEM-X monitors onboard INTEGRAL during the Galactic Bulge monitoring (see ATel #438) observation performed on February 28<sup>th</sup>, 2013, between (UT) 14:28 and 18:10. It is detected at 25  $\sigma$  in the combined JEM-X mosaic with an effective exposure time of 2 ksec, and the measured fluxes are the following:

170  $\pm$  6 mCrab (2.9e-9 erg/cm<sup>2</sup>/s) in the 3-10 keV energy band,

122  $\pm$  13 mCrab (1.5e-9 erg/cm<sup>2</sup>/s) in the 10-25 keV energy band.

The source is not visible in the IBIS/ISGRI camera with flux upper limits (6  $\sigma$ ) of  $\sim$ 3 mCrab (2.9e-11 erg/cm<sup>2</sup>/s) in the 18-40 keV band, and  $\sim$ 10 mCrab (1.0e-10 erg/cm<sup>2</sup>/s) in the 40-100 keV band.

No bursting activity is noticeable.

During the previous observation of the Galactic Bulge on February 24<sup>th</sup> (see ATel #4840) the source was not detected with 5  $\sigma$  upper limits of 8 mCrab (1.1e-10 erg/cm<sup>2</sup>/s) and 5 mCrab (5e-11 erg/cm<sup>2</sup>/s) in the 3-10 keV and 10-25 keV bands, respectively. The last outburst we saw was in September 2011 (ATel #3646), but the Swift/BAT seems to have seen the source active last time in November 2012. The next INTEGRAL observation of the Galactic Bulge is planned for March 11<sup>th</sup>.

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[rrutledge@astronomerstelegram.org](mailto:rrutledge@astronomerstelegram.org)

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[mansi@astronomerstelegram.org](mailto:mansi@astronomerstelegram.org)