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INTEGRAL finds renewed X-ray activity of the Neutron star X-ray transient SAX J1750.8-2900

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INTEGRAL finds renewed X-ray activity of the Neutron star X-ray transient SAX J1750.8-2900

ATel #8058; *Celia Sanchez-Fernandez (ESAC/ESA, Spain), Jerome Chenevez, Erik Kuulkers (ESAC/ESA, Spain), Angela Bazzano (INAF/IAPS, Italy), Volker Beckmann (APC, France), Tony Bird (Southampton, UK), Arash Bodaghee (GCSU, USA), Melania Del Santo (INAF/IASF-Pa, Italy), Albert Domingo (CAB/INTA-CSIC, Spain), Peter Jonker (SRON, The Netherlands), Peter Kretschmar (ESA/ESAC, Spain), Craig Markwardt (GSFC, USA), Ada Paizis (INAF/IASF-Mi, Italy), Katja Pottschmidt (UMBC/NASA GSFC, USA), Rudy Wijnands (UvA, The Netherlands)*

on 15 Sep 2015; 16:17 UT

Credential Certification: *Celia Sanchez-Fernandez (celia.sanchez@sciops.esa.int)*

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

Referred to by ATel #: [8189](#)

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INTEGRAL Galactic bulge monitoring observations (ATel #[438](#)) on UT 13 September 2015 18:50-22:32 reveal renewed X-ray activity from the low-mass X-ray binary transient and Type I X-ray burster SAX J1750.8-2900 (IAU Circ. #6597). The last outburst from this source was reported in 2011 (ATels #[3170](#), [3181](#)).

The JEM-X 3-10 keV and 10-25 keV fluxes during our observations are 32+/-3 mCrab and 16+/-6 mCrab respectively. A Type I X-ray burst from SAX J1750.8-2900 was detected during these observations, on UT 13 September 2015 20:51, with a peak flux of 2.3+/-0.2 Crab (3-25 keV) and a duration of 17 seconds.

The source is not detected with IBIS/ISGRI on September 13 with 3-sigma upper limits of about 5 and 8 mCrab in the 18-40 keV and 40-100 keV bands, respectively (12.6 ksec exposure).

Similar observations about 5 days earlier (on UT 8 September 2015 13:52-17:34; 12.6 ksec exposure) did not reveal the source with 3-sigma upper limits of 7 (3-10 keV) and 15 mCrab (10-25 keV).

We encourage further observations of SAX J1750.8-2900 at X-rays and other wavelengths.

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rrutledge@astronomerstelegram.orgdfox@astronomerstelegram.orgmansi@astronomerstelegram.org

