


**Outside**  
[GCN](#)  
[IAUCs](#)

**Other**  
 MacOS: [Dashboard Widget](#)  
 Follow ATel on [Twitter](#)  
[ATELstream](#)  
[ATel Community Site](#)

This space for free for your conference.



[ [Previous](#) | [Next](#) | [ADS](#) ]

## INTEGRAL Bulge monitoring program detects several active transients with JEM-X

ATel #3930; [J. Chenevez \(DTU Space, Denmark\)](#), [E. Kuulkers \(ESA/ESAC, Spain\)](#), [J. Alfonso-Garz  n \(CAB/INTA-CSIC, Spain\)](#), [V. Beckmann \(APC, France\)](#), [T. Bird \(Southampton, UK\)](#), [S. Brandt \(DTU Space, Denmark\)](#), [M. Del Santo \(INAF/IASF-Roma, Italy\)](#), [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. S  nchez-Fern  ndez \(ESA/ESAC, Spain\)](#), [R. Wijnands \(UvA, The Netherlands\)](#)

on 16 Feb 2012; 16:54 UT

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

Subjects: X-ray, Black Hole, Neutron Star, Transient

Referred to by ATel #: [5041](#)



A new season of the INTEGRAL Galactic bulge monitoring program (see ATel [#438](#)) has begun with an observation of seven pointings obtained between 2012 Feb 14.375 (9 UT) and 14.528 (12:41 UT), and reveals several transient X-ray sources detected by the twin JEM-X instruments. For temporary technical reasons the IBIS instrument was not taking data during these pointings.

We find the low-mass X-ray binary SAX J1747.0-2853 at a flux of 245 +/- 65 mCrab between 3-10 keV with a detection significance of 4 sigma for a total effective exposure of 14.9 ksec. The source is not detected in the 10-25 keV band with an upper limit of 5 mCrab. The last outburst of this transient source was observed a year ago, lasting from end of January until at least end of March 2011 (see, e.g., ATels [#3123](#), [#3172](#), [#3183](#), [#3217](#)).

The black hole candidate and microquasar H1743-322 (also known as IGR J17464-3213), observed during a total effective exposure of 7.5 ksec, is measured at a flux of 350 +/- 100 mCrab with a detection significance of 3.5 sigma between 3-10 keV, and 53 +/- 25 mCrab at 2.5 sigma between 10-25 keV. The source was observed by INTEGRAL at the beginning of an outburst in April 2011 (ATels [#3263](#), [3267](#)), and renewed activity was reported by MAXI at the end of 2011 (ATel [#3842](#)).

The X-ray burster KS 1741-293 (AX J1744.8-2921) is clearly active at a measured flux of 415 +/- 75 mCrab between 3-10 keV for a detection significance of 5.5 sigma and effective exposure of 15 ksec, and 80 +/- 10 mCrab at 9 sigma between 10-25 keV. A short (15 sec) X-ray burst is detected with a 3-25 keV peak flux of 0.6 Crab at UT 10:46:39 on February 14th.

INTEGRAL will continue to monitor the Galactic bulge about every third day until mid April, and observation results from near real time data will be made available at:

### Related

- 5332 [Report on \(non-\)activity in the Galactic bulge region as seen by INTEGRAL](#)
- 5241 [MAXI/GSC detection of a renewed outburst from the black hole candidate H 1743-322](#)
- 5041 [MAXI/GSC detection of an X-ray outburst probably from SAX J1747.0-2853 and Swift followup observation of the Galactic center region](#)
- 4992 [MAXI/GSC detection of a hard X-ray re-brightening from the BHC 4U 1630-472](#)
- 4848 [INTEGRAL/JEM-X detects a new outburst of the Rapid Burster \(MXB 1730-335\)](#)
- 4840 [Transient X-ray burster KS 1741-293 active again](#)
- 4622 [MAXI/GSC detection of a possible superburst from SLX 1735-269](#)
- 4419 [MAXI/GSC detects a new outburst from the black hole candidate H 1743-322](#)
- 4077 [Swift detects an increase in the hard X-ray emission from the BHC 4U 1630-47](#)
- 4075 [MAXI/GSC detection of a rapid X-ray spectral change in the black hole candidate 4U 1630-472](#)
- 3945 [INTEGRAL detects the hard X-ray brightening of 4U 1630-47](#)
- 3930 [INTEGRAL Bulge monitoring program detects several active transients with JEM-X](#)
- 3842 [MAXI/GSC detects a quasi-regular outburst and a possible soft state transition in H 1743-322](#)
- 3830 [MAXI/GSC detection of an outburst from a black hole candidate 4U 1630-472](#)
- 3760 [MAXI/GSC detection of a superburst from the neutron star SAX J1828.5-1037](#)
- 3646 [INTEGRAL Galactic Bulge monitoring: transient activity from KS 1741-293, MXB 1730-335, and IGR J17498-2921](#)
- 3632 [Swift detects an X-ray burst and renewed activity from KS 1741-293](#)
- 3625 [MAXI and RXTE-ASM detect superburst candidate for 4U 1820-30](#)
- 3301 [H 1743-322 moves towards a state transition](#)
- 3295 [Swift does not detect a source near H 1743-322](#)

<http://integral.esac.esa.int/BULGE/index.html>

- 3280 [Broad band energy spectrum and a low frequency QPO from H1743-322 in the hard state revealed by INTEGRAL and Swift observations](#)
- 3277 [RXTE Observes H1743-322 in Outburst](#)
- 3267 [INTEGRAL spots the very beginning of the current H1743-322 outburst](#)
- 3263 [IGR J17464-3213 \(= H1743-322\) is active again](#)
- 3217 [SAX J1747.0-2853: 'normal' thermonuclear bursts resumed](#)
- 3183 [First superburst observed by INTEGRAL, from SAX J1747.0-2853](#)
- 3181 [Swift/XRT confirms the INTEGRAL detection of a faint outburst from SAX J1750.8-2900](#)
- 3172 [INTEGRAL sees continuing activity from SAX J1747.0-2853, but not from SAX J1750.8-2900](#)
- 3170 [INTEGRAL/IBIS observations of the Galactic center region at the epoch of the short Fermi/LAT flare](#)
- 3163 [Swift/XRT detects SAX J1747.0-2853 \(=MAXI J1745-288\) in outburst](#)
- 3162 [Fermi LAT detection of an outburst from the Galactic center region](#)
- 3123 [MAXI/GSC detects an X-ray outburst from the Galactic center region, GRO J1744-28/MAXI J1745-288](#)
- 2857 [RXTE observes a transition to the low-hard state in H1743-322](#)
- 2797 [State transition in H 1743-322](#)
- 2792 [H 1743-322 approaching state transition](#)
- 2788 [RXTE pointed observations of H 1743-322](#)
- 2781 [Swift XRT observation of the black hole candidate H 1743-322](#)
- 2774 [MAXI/GSC detects a re-brightening from the black hole candidate H 1743-322](#)
- 2465 [INTEGRAL reports renewed activity from KS 1741-293](#)
- 2364 [Renewed Activity from H 1743-322 detected by MAXI/GSC](#)
- 1944 [INTEGRAL detects an X-ray burst from SAX J1747.0-2853 with no detectable persistent emission](#)
- 1780 [RXTE observations of the black hole candidate H1743-322 in its rising phase of the outburst](#)
- 1531 [Chandra detects activity from the Galactic X-ray transients KS 1741-293, Swift J174535.5-290135.6 and CXOGC J174535.5-290124](#)
- 1340 [A long burst from SLX 1735-269 detected by INTEGRAL](#)
- 1228 [A new outburst of the recurrent neutron star transient SAX J1747.0-2853](#)
- 642 [On the \(hard\) X-ray activity of](#)

	<a href="#"><u>SAX J1747.0-2853 as seen with INTEGRAL</u></a>
637	<a href="#"><u>Renewed activity of the neutron star X-ray transient SAX J1747.0-2853</u></a>
539	<a href="#"><u>HETE-2 detection of Superburst from SLX 1735-269</u></a>
483	<a href="#"><u>Probable superbursts in 4U 0614+091 and 4U 1608-522</u></a>
482	<a href="#"><u>Superburst in 4U1608-52</u></a>
342	<a href="#"><u>New X-ray transient IGR J17507-2856 discovered with INTEGRAL</u></a>
256	<a href="#"><u>INTEGRAL detection of the X-ray outburst of SAX J1747.0-2853</u></a>
255	<a href="#"><u>RXTE PCA Detections of Transient Activity of X-ray Bursters in the Galactic Center Region</u></a>

---

[ [Telegram Index](#) ]

R. E. Rutledge, Editor-in-Chief

Derek Fox, Editor

Mansi M. Kasliwal, Co-Editor

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

[dfox@astronomerstelegam.org](mailto:dfox@astronomerstelegam.org)

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