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Transient X-ray burster KS 1741-293 active again

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Transient X-ray burster KS 1741-293 active again

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Referred to by ATel #: [4848](#), [5041](#), [5332](#)

The transient X-ray burster KS 1741-293 (e.g., ATel #[1531](#), #[2465](#), #[3632](#), #[3646](#)) has become active again. During observations as part of the INTEGRAL Galactic bulge monitoring program (see ATel #[438](#)) on (UT) 22 February 2013 15:22-19:04 and 24 February 07:04-10:45, the source brightened from 16+/-2 to 22+/-2 mCrab and 13+/-2 to 17+/-2 mCrab in the IBIS/ISGRI 18-40 and 40-100 keV bands, respectively. On 12 February it was seen in the 18-40 keV band with a flux of 8+/-2 mCrab, but with a low significance of 3.9, while it was undetected in the 40-100 keV bands (upper limit of ~10 mCrab; 6 sigma).

On 22 Feb the source was detected by JEM-X at 10+/-2 (3-10 keV) and 14+/-4 mCrab (10-25 keV), while it was not detected on 12 Feb (3 sigma upper limits of ~3 and ~8 mCrab, respectively). For the observation on 24 February we can only infer upper limits of ~15 and ~20 mCrab (3-10 keV and 10-25 keV, respectively, 3 sigma).

During the two observations on 22 and 24 February JEM-X observed one Type I X-ray burst. It started near UT 22 February 18:36:12, had a peak rate of about 0.3 Crab (3-25 keV), and an exponential decay time scale of about 8 sec.

The hardness of the source in this active state is similar to that seen during INTEGRAL Galactic bulge monitoring program observations performed in September 2011 (ATel #[3646](#)), but different to that seen in similar observations performed in March 2010 (ATel #[2465](#)). We encourage follow-up observations of this source at all wavelengths.

INTEGRAL Galactic bulge monitoring program

Related

- 5847 [Swift/XRT observations of the Galactic center have resumed](#)
- 5332 [Report on \(non-\)activity in the Galactic bulge region as seen by INTEGRAL](#)
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- 5301 [A new outburst from LMXB 1A 1744-361](#)
- 5254 [Swift detection of a third burst from SGR J1745-29](#)
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- 5241 [MAXI/GSC detection of a renewed outburst from the black hole candidate H 1743-322](#)
- 5226 [New Swift/XRT observations confirm that the active Galactic center transient is AX J1745.6-2901](#)
- 5222 [Swift/XRT monitoring observations detect an active X-ray transient near the Galactic center](#)
- 5190 [Swift observations of a new outburst of the SFXT IGR J08408-4503](#)
- 5179 [Swift observations of a new outburst of the SFXT IGR J17544-2619](#)
- 5159 [Limits on Low Frequency Radio Flux Density Changes for Sgr A*](#)
- 5124 [Swift/BAT detection of a burst from SGR J1745-29](#)
- 5095 [Chandra confirmation of transient X-ray activity from CXOGC J174540.0-290005 north of the Galactic Center](#)
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- 5041 [MAXI/GSC detection of an X-ray outburst probably from SAX J1747.0-2853 and Swift followup observation of the Galactic center region](#)
- 5037 [Swift-BAT monitoring for](#)

	additional bursts from SGR J1745-29 (Trigger 554491)
5035	Detection of radio pulsations from the direction of the Galactic center Soft Gamma-ray Repeater with Parkes and the GBT
5033	Searches for Dispersed Radio Pulsar Emission from the Sag A* SGR
5032	Chandra localization of the soft gamma repeater in the Galactic Center region
5025	Limits on Radio Frequency Flux Density Changes in Sgr A*
5020	NuSTAR discovery of a 3.76 second pulsar in the Sgr A* region
5016	Continued Swift Monitoring of the Galactic Center Flare
5014	Brightening of Sgr A* at 32 GHz from VLA observations
5013	Possible brightening at 22 GHz of Sgr A*
5011	Swift XRT spectrum of transient X-ray source at Sgr A*'s position
5009	Swift/BAT detection of an SGR-like flare from near Sgr A*
5008	Ongoing X-ray activity from Sgr A*
5006	Large Flare from Sgr A* Detected by Swift
4939	Swift detects a flare from IGR J16418-4532
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
4471	1E 1740.7-2942 (the Great Annihilator) enters a low-intensity state
4450	Swift J174510.8-262411 in the hard intermediate state
4419	MAXI/GSC detects a new outburst from the black hole candidate H 1743-322
4366	Swift observes an outburst from the supergiant fast X-ray transient XTE J1739-30
4304	INTEGRAL detects the recurrent transients XTE J1709-267 and XTE J1739-285 in outburst
4276	Swift observes a new outburst from the SFXT AX J1841.0-0536
4275	Swift observations of a new outburst of the SFXT IGR J17544-2619
4176	Swift observes a new outburst from the Supergiant Fast X-ray Transient AX J1841.0-0536
4095	Swift observes a new outburst from the Supergiant Fast X-ray Transient AX J1845.0-0433
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

- 3661 Swift observations of the accreting millisecond pulsar IGR J17498-2921: from outburst to quiescence
- 3646 INTEGRAL Galactic Bulge monitoring: transient activity from KS 1741-293, MXB 1730-335, and IGR J17498-2921
- 3643 Thermonuclear burst oscillations from the 401 Hz pulsar IGR J17498-2921
- 3638 Outburst near-infrared and Chandra observations of the ms-pulsar IGR J17498-2921
- 3634 Pre-outburst optical/NIR observations of the field around the accreting millisecond X-ray pulsar IGR J17498-2921
- 3632 Swift detects an X-ray burst and renewed activity from KS 1741-293
- 3622 The optical counterpart of the accreting millisecond X-ray pulsar IGR J17498-2921
- 3606 Chandra Localization of the Accretion-Powered Millisecond Pulsar IGR J17498-2921
- 3601 Refined Orbital Timing Solution for IGR J17498-2921
- 3586 Swift observations of a new outburst of the SFXT IGR J08408-4503
- 3568 RXTE detection of a thermonuclear burst from IGR J17498-2921: distance estimate and burst oscillations
- 3563 A preliminary orbital solution for the newly discovered AMSP, IGRJ17498-2921
- 3562 Search for the NIR counterpart to IGR J17498-2921 in quiescence
- 3561 Preliminary Candidate Binary Orbit Solutions for IGR J17498-2921
- 3560 INTERGAL detects a Type I X-ray burst from IGR J17498-2921
- 3559 Chandra detection of IGR J17498-2921 in quiescence
- 3558 IGR J17498-2921: improved Swift/XRT position
- 3556 RXTE detects a coherent signal at ~ 401 Hz from IGR J17498-2921.
- 3555 Swift localization of the new hard X-ray transient IGR J17498-2921
- 3551 A new hard X-ray transient discovered by INTEGRAL: IGRJ17498-2921
- 3453 Swift detected outburst of the SFXT IGR J18410-0535/AX1841.0-0536
- 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
- 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
- 2856 INTEGRAL non-detection of enhanced Crab flux
- 2825 INTEGRAL confirms that XTE J1728-295 = IGR J17285-2922
- 2774 MAXI/GSC detects a re-brightening from the black hole candidate H 1743-322
- 2770 Swift/XRT detects new outbursts of the galactic center X-ray transients GRS 1741-2853 and XMM J174457-2850.3
- 2729 MAXI/GSC detects an X-ray outburst of RX J1709.5-2639 (XTE J1709-267)
- 2690 Swift/XRT detects renewed activity of the galactic center X-ray transient AX J1745.6-2901
- 2662 Analysis of Swift data of the June 5 outburst of the SFXT IGR J18410-0535/AX1841.0-0536
- 2520 A new outburst of the SFXT IGR J08408-4503 observed by Swift
- 2465 INTEGRAL reports renewed activity from KS 1741-293
- 2364 Renewed Activity from H 1743-322 detected by MAXI/GSC
- 2305 New X-ray Outburst in X1744-361 (A1744-36)
- 2178 Swift observations of a new outburst of the SFXT IGR J08408-4503
- 2102 Swift observations of an outburst of the SFXT AX J1845.0-0433/IGR J18450-0435
- 1587 New X-ray Outburst in X1744-361
- 1577 Identification of the transient XTE J1719-291 = SWIFT J171916.9-290410
- 1557 Hard X-ray activity from Aquila X-1
- 1541 Swift/XRT observations of the X-ray transients KS1741-293 and XTE J1719-291
- 1531 Chandra detects activity from the Galactic X-ray transients KS 1741-293, Swift J174535.5-290135.6 and CXOGC J174535.5-290124
- 1513 Chandra detects Swift J174535.5-290135.6 in a relatively bright state
- 1467 Re-brightening of XTE J1719-291
- 1451 Swift/XRT follow-up observation of the field of XTE J1719-291
- 1442 XTE J1719-291: A Brief X-ray Transient

- 1398 Recent activity of the Rapid Burster (MXB 1730-335)
- 1385 INTEGRAL Galactic bulge monitoring observations of GRO J1750-27 (AX J1749.1-2639), H1743-322 and SLX 1746-331
- 1302 X-ray outburst from RX J1709-2639
- 1113 4U 1608-522 in X-ray outburst
- 1105 Swift/BAT discovers a new galactic transient: SWIFT J1756.9-2508
- 1064 SAX J2103.5+4545 Continues to be observable with Swift/BAT
- 1061 Cygnus X-3 re-entering its high-soft state
- 1058 Long duration outbursts from the two X-ray bursters AX J1745.6-2901 and GRS 1741.9-2853 suggested by XMM-Newton observations
- 1028 Cygnus X-3 re-enters the low-hard state
- 1006 Renewed activity of the Galactic center transients Swift J174535.5-290135.6 and GRS 1741.9-2853 as observed with Swift/XRT
- 1005 Two active X-ray transients in the Galactic Center region as seen by INTEGRAL
- 904 Announcement of the Swift/BAT Hard X-ray Transient Monitor
- 892 Renewed activity of the very faint X-ray transient CXOGC J174535.5-290124 and continued activity of the neutron-star X-ray transient SAX J1747.0-2853
- 756 INTEGRAL detects SWIFT J174535.5-290135.6
- 753 Swift/XRT detection of a transient source in the Galactic Center
- 734 Three active neutron star X-ray transients: SAX J1747.0-2853, XTE J1739-285 and GRS 1747-312
- 642 On the (hard) X-ray activity of SAX J1747.0-2853 as seen with INTEGRAL
- 641 Swift Observation of SAX J1747.0-2853
- 638 Further Chandra observations of SAX J1747.0-2853 and the region around Sgr A*
- 637 Renewed activity of the neutron star X-ray transient SAX J1747.0-2853
- 567 New Outburst of A1744-36 = XTE J1748-361
- 267 Discovery of the optical counterpart to XTEJ1748-361=A1744-36
- 265 A Second Recent Outburst of XTE J1748-361 (or A1744-36)
- 257 1E1740.7-2942 and KS1741-293
- 255 RXTE PCA Detections of Transient Activity of X-ray Bursters in the Galactic Center Region
- 210 Radio observations of XTE J1748-361 (=A1744-36?)

204	New X-ray Transient XTE J1748-361 (may be A1744-36)
94	Black-Hole Candidate 1E 1740.7-2942 Enters a Faint Soft State

[**Telegram Index**]

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