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INTEGRAL Galactic Bulge monitoring: transient activity from KS 1741-293, MXB 1730-335, and IGR J17498-2921

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INTEGRAL Galactic Bulge monitoring: transient activity from KS 1741-293, MXB 1730-335, and IGR J17498-2921

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on 14 Sep 2011; 18:23 UT

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

Referred to by ATel #: 4840, 4848

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As part of its regular monitoring of the Galactic Bulge (see ATel #438) INTEGRAL observed this region of the sky on September 13, 2011, between UTC 9:14:50 and 12:56:26. Both the JEM-X and the IBIS/ISGRI instruments detect the transient neutron star low-mass X-ray binary KS 1741-293 at the following flux levels:

JEM-X: 6 +/-3 mCrab (3-10 keV) and 14 +/-6 mCrab (10-25 keV)

ISGRI: 11 +/-2 mCrab (18-40 keV) and 13 +/-2 mCrab (40-100 keV)

We note that the activity of this source already started two weeks ago as has been reported by Linares et al. (ATel #3632) and Barthelmy et al. (GCN #12319) using Swift data. No X-ray burst is detected during the INTEGRAL observation.

We also report on renewed activity (see, e.g., ATel #1398) from the Rapid Burster (MXB 1730-335) with the following fluxes:

JEM-X: 139 +/-18 mCrab (3-10 keV) and 63 +/-20 mCrab (10-25 keV)

ISGRI: 10 +/-2mCrab (18-40 keV) and 5 sigma upper limit of 10 mCrab (40-100 keV)

A series of 15 type II bursts is detected when the source was inside the JEM-X field of view, with an average burst recurrence time of about four minutes.

Related

- 14047 MAXI/GSC detection of a new outburst from RX J1709.5-2639 (XTE J1709-267)
- 12843 Swift Bulge Survey: X-ray activity of bursters KS 1741-293, IGR J17445-2747, SAX J1750.8-2900, and symbiotic X-ray binary XMMU J17445.5-295044
- 12576 MAXI/GSC detection of an ongoing X-ray outburst from SAX J1747.0-2853 or a new X-ray transient MAXI J1746-290
- 10671 MAXI/GSC detection of a weak X-ray outburst from RX J1709.5-2639 (XTE J1709-267)
- 8189 Swift/XRT imaging finds no new transient near MAXI reported burst position
- 7096 INTEGRAL detection of the on-going outbursts from 1RXS J180408.9-342058 and GRO J1750-27
- 5332 Report on (non-)activity in the Galactic bulge region as seen by INTEGRAL
- 5319 MAXI/GSC detection of a new X-ray outburst from RX J1709.5-2639(=XTE J1709-267)
- 5301 A new outburst from LMXB 1A 1744-361
- 5246 Swift/XRT detects activity of the Galactic center transient GRS 1741-2853
- 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
- 5041 MAXI/GSC detection of an X-ray outburst probably from SAX J1747.0-2853 and Swift followup observation of the Galactic center region
- 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
- 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

The new transient source IGR J17498-2921 (see, e.g., ATels #3551, #3556, #3558, #3568, #3606) is only marginally detected by JEM-X in the 3-10 keV range at a flux level of 5 +/-3 mCrab and a 6 sigma upper limit of 2 mCrab between 10-25 keV. IBIS/ISGRI does not detect the source with 5 sigma upper limits of about 3 and 10 mCrab in the above quoted energy bands. This indicates the source is fading back to quiescence.

The next observation of the Galactic Bulge by INTEGRAL is planned for September 16, 2011.

	Annihilator) enters a low-intensity state
3930	INTEGRAL Bulge monitoring program detects several active transients with JEM-X
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
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
3163	Swift/XRT detects SAX J1747.0-2853 (=MAXI J1745-288) in outburst
3123	MAXI/GSC detects an X-ray outburst from the Galactic center region, GRO J1744-28/MAXI J1745-288
2465	INTEGRAL reports renewed activity from KS 1741-293
1739	INTEGRAL spots renewed activity from H1743-322
1577	Identification of the transient XTE J1719-291 = SWIFT J171916.9-290410
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
1471	Earlier activity from XTE J1739-302/IGR J17391-3021 detected by INTEGRAL
1468	Continuous brightening of IGR J17473-2721
1467	Re-brightening of XTE J1719-291
1461	Hard X-ray activity of IGR J17473-2721
1451	Swift/XRT follow-up observation of the field of XTE J1719-291
1442	XTE J1719-291: A Brief X-ray Transient
1401	Swift observations of the continuing outburst of GRO J1750-27
1400	Further observations of GRO J1750-27 (AX J1749.1-2639) with INTEGRAL
1398	Recent activity of the Rapid Burster (MXB 1730-335)
1387	Swift/XRT observation of H1743-322
1385	INTEGRAL Galactic bulge monitoring observations of GRO J1750-27 (AX J1749.1-2639), H1743-322 and SLX 1746-331
1384	On-going radio observations of H1743-322
1378	Galactic black hole transient H1743-322 in transition to the hard state
1376	Swift/BAT Detects Increased Activity from the Accreting Pulsar GRO J1750-27
1352	Further radio observations of H1743-322
1349	Radio detection of the black hole transient H 1743-322 in outburst.
1348	Galactic black hole transients H1743-322 and 4U 1630-47 in outburst
1235	SLX 1746-331 In Outburst
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
874	New INTEGRAL source, IGR J17354-3255, and continuation of the INTEGRAL Galactic Bulge monitoring program
753	Swift/XRT detection of a transient source in the Galactic Center
638	Further Chandra observations of SAX J1747.0-2853 and the region around Sgr A*

[[Telegram Index](#)]

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