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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
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- 7096 INTEGRAL detection of the on-going outbursts from 1RXS J180408.9-342058 and GRO J1750-27
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- 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.

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