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INTEGRAL sees Swift J174510.8-2624, Swift J1753.7-2544, XTE J1810-189, XTE J1739-285 to be still on, while 1E 1740.7-2942 is off

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INTEGRAL sees Swift J174510.8-2624, Swift J1753.7-2544, XTE J1810-189, XTE J1739-285 to be still on, while 1E 1740.7-2942 is off

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on 11 Feb 2013; 14:14 UT

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

Referred to by ATel #: [4899](#), [4904](#), [5084](#), [5332](#)



A new season of the INTEGRAL Bulge monitoring programme (see ATel #438) started this morning (UT 2013 Feb 11 00:57-04:39). The sources Swift J174510.8-2624 (ATels #4760, #4782), Swift J1753.7-2544 (ATels #4769, #4789), XTE J1810-189 (ATel #4752) and XTE J1739-285 (ATels #4304, #4354) are still active. Swift J174510.8-2624 and Swift J1753.7-2544 are transient black-hole candidate binaries. XTE J1810-189 and XTE J1739-285 are recurrent transient type-I X-ray bursters, and thus hosting neutron stars.

We find the following fluxes for these transient sources:

Swift J174510.8-2624: 29+/-3 mCrab (3-10 keV), 49+/-5 mCrab (10-25keV), 65+/-2 mCrab (18-40 keV), 100+/-2 mCrab (40-100 keV)

Swift J1753.7-2544 : 13+/-5 mCrab (3-10 keV), 32+/-7 mCrab (10-25 keV), 46+/-2 mCrab (18-40 keV), 60+/-2 mCrab (40-100 keV)

XTE J1810-189 : 64+/-3 mCrab (18-40 keV), 37+/-4 mCrab (40-100 keV)

XTE J1739-285 : 88+/-2 mCrab (3-10 keV), 35+/-4 mCrab (10-15 keV), <~10 mCrab (18-40 keV; 6 sigma), <~15 mCrab (40-100 keV; 6 sigma)

Note that XTE J1810-189 was not in the field of view of the JEM-X during the observations.

These observations show Swift J174510.8-2624 (ATels #4760, #4782) and Swift J1753.7-2544 to be (still) in a hard state. No Type I X-ray bursts from XTE J1810-189 and XTE J1739-285 were seen during our INTEGRAL observations.

During our last monitoring season, 1E 1740.7-2942 (the Great Annihilator) was seen to turn off (ATel #4471). Our observation on 2013 Feb 11 shows that it is still below our monitoring detection limits: flux limits are <~7 mCrab (3-10 keV; 3 sigma), <~9 mCrab (10-25 keV; 3 sigma), <~10 mCrab (18-40 keV; 6 sigma), <~15 mCrab (40-100 keV; 6 sigma). We encourage

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- 5046 [Spin-down Measurement of PSR J1745-2900: a New Magnetar](#)
- 5041 [MAXI/GSC detection of an X-ray outburst probably from SAX J1747.0-2853 and Swift followup observation of the](#)

observations at all wavelengths to further investigate the nature of the low states of this source.

INTEGRAL Galactic bulge monitoring program

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5032	Chandra localization of the soft gamma repeater in the Galactic Center region
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