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INTEGRAL detects a new outburst from the millisecond X-ray pulsar IGR J17511-3057

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

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During the observations performed in the direction of the Galactic Bulge on 2015 March 23 from 02:49 to 07:26 (UTC), the instruments on-board INTEGRAL detected a new outburst from the millisecond X-ray pulsar IGR J17511-3057 (ATel #[2196](#), #[2197](#); Papitto et al., 2010, MNRAS, 407, 2575).

The source was included in both the IBIS and JEM-X field of views. IGR J17511-3057 is detected by IBIS/ISGRI at a flux of $18^{+/-2}$ mCrab in the 20-40 keV energy band and $24^{+/-2}$ mCrab in the 40-80 keV energy band. The fluxes estimated from the JEM-X data were $18^{+/-3}$ mCrab in the 3-10 keV energy band and $24^{+/-5}$ mCrab in the 10-20 keV energy band. All uncertainties on the fluxes are quoted at 1 sigma c.l. The IBIS/ISGRI spectrum (effective exposure time 9.1 ks) could be reasonably well described by using a power-law model with photon index $2.3^{+/-0.4}$. The 20-100 keV X-ray flux estimated from the spectral fit is $4.5E-10$ ergs/cm²/s.

Further INTEGRAL observations in the direction of the source are already planned for the next days. The INTEGRAL monitoring of the Galactic bulge will also continue in the coming weeks, and the observational results from near real time data will be made available [HERE](#).

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