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### INTEGRAL observation of MAXI J0911-655

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## INTEGRAL observation of MAXI J0911-655

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on 26 Apr 2016; 05:59 UT

Credential Certification: *E. Bozzo (enrico.bozzo@unige.ch)*

Subjects: X-ray, Binary, Transient

Referred to by ATel #: [9738](#), [10425](#)

The recently discovered transient MAXI J0911-655 (Atels #[8872](#), #[8884](#), #[8914](#), #[8971](#)) was observed during a dedicated INTEGRAL campaign performed from 2016 April 23 at 23:43 to April 25 at 06:51 UTC.

The source was detected by IBIS/ISGRI at a significance of 16 sigma in the 20-40 keV energy range and 11 sigma in the 40-80 keV energy range (effective exposure time 46 ks). The estimated fluxes from the mosaics were of  $9.3 \pm 0.6$  mCrab (i.e.  $\sim 7.0E-11$  erg/cm<sup>2</sup>/s) and  $10.7 \pm 0.9$  mCrab (i.e.  $\sim 7.4E-11$  erg/cm<sup>2</sup>/s), respectively.

The source was also detected by the two JEM-X instruments at a significance of 11 sigma in the 3-10 keV energy range and about 4 sigma in the 10-20 keV energy range (effective exposure time 58 ks). The corresponding fluxes estimated from the JEM-X mosaics were  $6.8 \pm 0.6$  mCrab (i.e.  $\sim 9.6E-11$  erg/cm<sup>2</sup>/s) and  $5.5 \pm 1.4$  mCrab (i.e.  $\sim 5.1E-11$  erg/cm<sup>2</sup>/s), respectively. These values might be significantly different once the JEM-X off-line energy calibration will be carried out.

By using the INTEGRAL near real time data, we performed a preliminarily broad-band spectral fits of the ISGRI and JEM-X data together. The spectrum of MAXI J0911-655 could be well fit (reduced  $\chi^2/d.o.f. = 0.7/36$ ) by using a simple absorbed power-law with photon index of  $2.4 \pm 0.2$  (we fixed the absorption column density to  $4E21$  cm<sup>-2</sup>, see Atel #[8884](#)). The flux measured from the spectral fit is  $3.0E-10$  erg/cm<sup>2</sup>/s in the 3-100 keV energy range.

A more detailed spectral analysis will be performed on the consolidated INTEGRAL data including refined calibrations especially for the JEM-X units.

No thermonuclear bursts have been detected in the JEM-X lightcurve, and thus the nature of the

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accreting compact object in MAXI J0911-655 remains debated.

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