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### INTEGRAL observation of GRS 1739-278 in outburst

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## INTEGRAL observation of GRS 1739-278 in outburst

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on **20 Mar 2014; 18:05 UT**

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During the Galactic bulge monitoring observation (Atel #438) performed on 2014 March 19 from 11:00 to 14:42 (UTC), the black-hole candidate GRS 1739-278 (ATel #5986) was also seen by INTEGRAL.

The source is detected by IBIS/ISGRI up to an energy of about 200 keV. The estimated ISGRI flux is 143 $\pm$ 2 mCrab in the 18-40 keV energy band and 166 $\pm$ 2 mCrab in the 40-100 keV energy band. The fluxes estimated from JEM-X are 60 $\pm$ 4 mCrab in the 3-10 keV energy band and 104 $\pm$ 8 mCrab in the 10-20 keV energy band.

Its averaged broad-band (3-200 keV) spectrum, extracted by using all available ISGRI and JEM-X data (total exposure time 12.6 ks), could be roughly described with a cut-off power-law model. The measured photon index is 1.4 $\pm$ 0.2 and the energy cut-off is 90(-20+40) keV (we fixed the absorption column density to the Galactic value expected in the direction of the source, i.e. 0.8E22 cm<sup>-2</sup>). The 3-200 keV X-ray flux derived from the spectral fit is 5E-9 ergs/cm<sup>2</sup>/s (not corrected for absorption).

This spectral shape is reminiscent of that displayed by black-hole candidates in the canonical hard state.

Further observations of the source with INTEGRAL are planned for March 28.

*[INTEGRAL Galactic bulge monitoring web-page](#)*

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