



UvA-DARE (Digital Academic Repository)

INTEGRAL observation of GRS 1739-278 in outburst

Filippova, E.; Kuulkers, E.; Skąd, N.M.; Alfonso-Garzon, J.; Beckmann, V.; Bird, A.J.; Brandt, S.; Chenevez, J.; Del Santo, M.; Domingo, A.; Ebisawa, K.; Jonker, P.G.; Kretschmar, P.; Markwardt, C.B.; Oosterbroek, T.; Paizis, A.; Pottschmidt, K.; Sanchez-Fernandez, C.; Wijnands, R.; Bozzo, E.; Ferrigno, C.

Publication date

2014

Document Version

Final published version

Published in

The astronomer's telegram

[Link to publication](#)

Citation for published version (APA):

Filippova, E., Kuulkers, E., Skąd, N. M., Alfonso-Garzon, J., Beckmann, V., Bird, A. J., Brandt, S., Chenevez, J., Del Santo, M., Domingo, A., Ebisawa, K., Jonker, P. G., Kretschmar, P., Markwardt, C. B., Oosterbroek, T., Paizis, A., Pottschmidt, K., Sanchez-Fernandez, C., Wijnands, R., ... Ferrigno, C. (2014). INTEGRAL observation of GRS 1739-278 in outburst. *The astronomer's telegram*, 5991.
<http://www.astronomerstelegam.org/?read=5991>

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

UvA-DARE is a service provided by the library of the University of Amsterdam (<https://dare.uva.nl>)

17 Apr 2015; 09:22 UT

Outside

GCN
IAUCs

Other

ATel on [Twitter](#) and [Facebook](#)
ATELstream
ATel Community Site
MacOS: [Dashboard Widget](#)This space for free for your
conference.[[Previous](#) | [Next](#) | [ADS](#)]

INTEGRAL observation of GRS 1739-278 in outburst

ATel #5991; *E. Filippova (ISDC, Switzerland), E. Kuulkers (ESAC, Spain), N. M. SkÅ, dt (DTU Space, Denmark), J. Alfonso-Garzon (CAB/INTA-CSIC, Spain), V. Beckmann (APC, France), A. J. Bird (Southampton, UK), S. Brandt, J. Chenevez (DTU Space, Denmark), M. Del Santo (INAF/IAPS Roma, Italy), A. Domingo (CAB/INTA-CSIC, Spain), K. Ebisawa (U of Tokyo, JAXA/ISAS, Japan), P. G. Jonker (SRON/CfA/RU), P. Kretschmar (ESA/ESAC, Spain), C. B. Markwardt (NASA/GSFC, USA), T. Oosterbroek (ESA/ESTEC, The Netherlands), A. Paizis (INAF-IASF Milano, Italy), K. Pottschmidt (CRESS/UMBC, NASA/GSFC, USA), C. Sanchez-Fernandez (ESA/ESAC, Spain) & R. Wijnands (UvA, The Netherlands), E. Bozzo, C. Ferrigno (ISDC, Switzerland)*
on **20 Mar 2014; 18:05 UT**

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

Subjects: X-ray, Black Hole, Transient



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⁻²). The 3-200 keV X-ray flux derived from the spectral fit is 5E-9 ergs/cm²/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](#)

[[Telegram Index](#)]

R. E. Rutledge, Editor-in-Chief

Derek Fox, Editor

rrutledge@astronomerstelegram.org

dfox@astronomerstelegram.org

Mansi M. Kasliwal, Co-Editor

mansi@astronomerstelegam.org