

## **INTEGRAL confirms the detection of renewed activity from the NS transient H 1658-298**

**Sanchez-Fernandez, C.; Eckert, D.; Bozzo, E.; Kajava, J.; Kuulkers, E.; Chenevez, Jérôme**

*Published in:*  
The Astronomer's Telegram

*Publication date:*  
2015

*Document Version*  
Publisher's PDF, also known as Version of record

[Link back to DTU Orbit](#)

*Citation (APA):*  
Sanchez-Fernandez, C., Eckert, D., Bozzo, E., Kajava, J., Kuulkers, E., & Chenevez, J. (2015). INTEGRAL confirms the detection of renewed activity from the NS transient H 1658-298. The Astronomer's Telegram, (ATel #7946), [ATel #7946].

## **DTU Library** Technical Information Center of Denmark

---

### **General rights**

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

[ [Previous](#) | [Next](#) | [ADS](#) ]

## INTEGRAL confirms the detection of renewed activity from the NS transient H 1658-298

ATel #7946; *C. Sanchez-Fernandez (ESAC/ESA, Spain), D. Eckert, E. Bozzo (ISDC, Switzerland), J. Kajava, E. Kuulkers (ESAC/ESA, Spain), J. Chenevez (DTU, Denmark)*  
on 24 Aug 2015; 15:42 UT

Credential Certification: *Celia Sanchez-Fernandez (celia.sanchez@sciops.esa.int)*

Subjects: X-ray, Request for Observations, Binary, Neutron Star, Transient

Referred to by ATel #: [7957](#), [8046](#)

[Tweet](#) [Recommend](#) 2

INTEGRAL observed the Galactic Center Region between (UT) 2015-08-22 05:26 and 18:44. Enhanced X-ray emission was detected by the Joint European Monitor for X-rays (JEM-X) in the 3-10 keV band, (15 mCrab; 9-sigma significance) at the following position:

(R.A., Dec) = (255.5284, -29.94175) = (17 02 06.82, -29 56 30.3) (J2000); 0.4 arc min 90% confidence limit.

These coordinates are consistent with those of the optical counterpart of H 1658-298: (R.A., Dec) = (17 02 06.5, -29 56 44.1; J2000, Liu et al., 2007 A&A, 469, 807), and thus confirm the system as the origin of the MAXI trigger on Aug 21 (see ATel #[7943](#)).

The source spectrum extracted from the JEM-X data (effective exposure time 10.7 ksec) can be fit by a power-law model with photon index  $2.9 \pm 0.5$ . The flux estimated from the spectral fit is  $2.8E-10$  erg/cm<sup>2</sup>/s (3-10 keV).

H 1658-298 was marginally detected in hard X-rays (~6.8 mCrab, 4.5-sigma significance in the 20-40 keV energy band) by IBIS, the Imager Onboard the INTEGRAL Satellite.

H 1658-298 is a known X-ray burster. Therefore we have searched for Type-I burst activity in the JEM-X data during these observations, but no indications of burst activity have been found.

We note here that the last outburst from this system was detected in 1999 April and lasted for ~2.5 years. It is likely we are at the onset of a similar outburst.

Further INTEGRAL observations of the Galactic Center field are foreseen in the coming time, from August 26. Multi-wavelength observations of H 1658-298 are encouraged.

[jerome@dsri.dk](mailto:jerome@dsri.dk)

[Logout](#)

[ [Telegram Index](#) ]

R. E. Rutledge, Editor-in-Chief

Derek Fox, Editor

Mansi M. Kasliwal, Co-Editor

[rrutledge@astronomerstelegram.org](mailto:rrutledge@astronomerstelegram.org)

[dfox@astronomerstelegram.org](mailto:dfox@astronomerstelegram.org)

[mansi@astronomerstelegram.org](mailto:mansi@astronomerstelegram.org)

Related	
<a href="#">8046</a>	<a href="#">Swift follow-up observations of outburst from H 1658-298</a>
<a href="#">7957</a>	<a href="#">Swift/XRT confirmation of activity from H 1658-298, no detection of MAXI J1327-627</a>
<a href="#">7947</a>	<a href="#">Swift/XRT follow up on X-ray burst from SAX J1324.5-63.13</a>
<a href="#">7946</a>	<a href="#">INTEGRAL confirms the detection of renewed activity from the NS transient H 1658-298</a>
<a href="#">7943</a>	<a href="#">MAXI/GSC detection of renewed X-ray activities of SAX J1324.5-6313/MAXI J1327-627 and H 1658-298/MAXI J1702-301</a>