



UvA-DARE (Digital Academic Repository)

New Swift/XRT observations confirm that the active Galactic center transient is AX J1745.6-2901

Degenaar, N.; Kennea, J.A.; Wijnands, R.; Reynolds, M.T.; Miller, J.M.; Gehrels, N.

Published in:
The astronomer's telegram

[Link to publication](#)

Citation for published version (APA):

Degenaar, N., Kennea, J. A., Wijnands, R., Reynolds, M. T., Miller, J. M., & Gehrels, N. (2013). New Swift/XRT observations confirm that the active Galactic center transient is AX J1745.6-2901. *The astronomer's telegram*, 5226. <http://www.astronomerstelegam.org/?read=5226>

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 (<http://dare.uva.nl>)

Outside
 GCN
 IAUCs

Other
 ATel on [Twitter](#) and [Facebook](#)
 ATELstream
 ATel Community Site
 MacOS: [Dashboard Widget](#)

This space for free for your conference.

IAU Symposium 305
 Polarimetry: From the Sun to Stars and Stellar Environments
 Costa Rica
 Nov 30-Dec 5 2014

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

New Swift/XRT observations confirm that the active Galactic center transient is AX J1745.6-2901

ATel #5226; *N. Degenaar (Michigan), J. A. Kennea (PSU), R. Wijnands (UvA), M. T. Reynolds, J. M. Miller (Michigan) and N. Gehrels (GSFC), on behalf of a larger collaboration on 25 Jul 2013; 17:09 UT*
 Credential Certification: *Nathalie Degenaar (degenaar@umich.edu)*

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

Referred to by ATel #: [5246](#), [5332](#), [5847](#)



Ongoing Swift/XRT monitoring observations of the Galactic center have allowed us to refine the position of the X-ray transient that is currently active (ATel #5222). Utilizing the position-enhancement algorithm described by Goad et al. (2007) and Evans et al. (2009), we find:

R.A. (J2000) = 17:45:35.64
 Dec. (J2000) = -29:01:35.9

with an uncertainty of 2.2" (90% confidence). These coordinates are 1.8" from the Chandra counterpart of AX J1745.6-2901 (CXOGC J174535.6-290133; ATel #1513), hence fully consistent. This confirms that the thermonuclear burster and eclipsing neutron star low-mass X-ray binary AX J1745.6-2901 has entered a new accretion outburst.

The Swift/XRT Monitoring Campaign Website can be found at: <http://www.swift-sgra.com>

References:

Evans et al. 2009, MNRAS 397, 1177
 Goad et al. 2007, A&A, 476, 1401

Related

- 5922 Continued Chandra monitoring observations of the Galactic Center magnetar
- 5861 Continued Swift/XRT monitoring observations of the Galactic center
- 5847 Swift/XRT observations of the Galactic center have resumed
- 5332 Report on (non-)activity in the Galactic bulge region as seen by INTEGRAL
- 5319 MAXI/GSC detection of a new X-ray outburst from RX J1709.5-2639(=XTE J1709-267)
- 5301 A new outburst from LMXB 1A 1744-361
- 5254 Swift detection of a third burst from SGR J1745-29
- 5246 Swift/XRT detects activity of the Galactic center transient GRS 1741-2853
- 5241 MAXI/GSC detection of a renewed outburst from the black hole candidate H 1743-322
- 5226** New Swift/XRT observations confirm that the active Galactic center transient is AX J1745.6-2901
- 5222 Swift/XRT monitoring observations detect an active X-ray transient near the Galactic center
- 5190 Swift observations of a new outburst of the SFXT IGR J08408-4503
- 5179 Swift observations of a new outburst of the SFXT IGR J17544-2619
- 5159 Limits on Low Frequency Radio Flux Density Changes for Sgr A*
- 5124 Swift/BAT detection of a burst from SGR J1745-29
- 5095 Chandra confirmation of transient X-ray activity from CXOGC J174540.0-290005 north of the Galactic Center
- 5076 Detection of radio pulsations at 22 GHz from the Magnetar PSR J1745-2900 in the archival data from 2011
- 5074 Swift/XRT detection of an active X-ray transient near the Galactic center
- 5073 NuSTAR detection of a transient in outburst north of Sgr A*
- 5070 Search for pulsed radio emission from PSR J1745-2900 at 1 GHz with the GMRT
- 5064 Polarisation profiles and

	rotation measure of PSR J1745-2900 measured at Effelsberg
5058	On-going radio observations of PSR J1745-2900 at Effelsberg, Nancay, and Jodrell Bank: flux density estimates, polarisation properties, spin-down measurement, and the highest dispersion measure measured.
5053	Detection by Sardinia Radio Telescope of radio pulses at 7 GHz from the Magnetar PSR J1745-2900 in the Galactic center region
5046	Spin-down Measurement of PSR J1745-2900: a New Magnetar
5043	Further radio pulsations from the direction of the NuSTAR 3.76-second X-ray pulsar, and a dispersion measure estimate.
5041	MAXI/GSC detection of an X-ray outburst probably from SAX J1747.0-2853 and Swift followup observation of the Galactic center region
5040	Detection of radio pulsations from the direction of the NuSTAR 3.76 second X-ray pulsar at 8.35 GHz
5037	Swift-BAT monitoring for additional bursts from SGR J1745-29 (Trigger 554491)
5035	Detection of radio pulsations from the direction of the Galactic center Soft Gamma-ray Repeater with Parkes and the GBT
5033	Searches for Dispersed Radio Pulsar Emission from the Sag A* SGR
5032	Chandra localization of the soft gamma repeater in the Galactic Center region
5027	Searches for radio pulsations from the 3.76 second NuSTAR X-ray pulsar in the Galactic centre.
5025	Limits on Radio Frequency Flux Density Changes in Sgr A*
5020	NuSTAR discovery of a 3.76 second pulsar in the Sgr A* region
5016	Continued Swift Monitoring of the Galactic Center Flare
5014	Brightening of Sgr A* at 32 GHz from VLA observations
5013	Possible brightening at 22 GHz of Sgr A*
5011	Swift XRT spectrum of transient X-ray source at Sgr A*'s position
5009	Swift/BAT detection of an SGR-like flare from near Sgr A*
5008	Ongoing X-ray activity from Sgr A*
5006	Large Flare from Sgr A* Detected by Swift
4939	Swift detects a flare from IGR J16418-4532
4848	INTEGRAL/JEM-X detects a new outburst of the Rapid Burster (MXB 1730-335) Transient X-ray burster KS

- 4840 1741-293 active again
- 4471 1E 1740.7-2942 (the Great Annihilator) enters a low-intensity state
- 4450 Swift J174510.8-262411 in the hard intermediate state
- 4419 MAXI/GSC detects a new outburst from the black hole candidate H 1743-322
- 4366 Swift observes an outburst from the supergiant fast X-ray transient XTE J1739-30
- 4304 INTEGRAL detects the recurrent transients XTE J1709-267 and XTE J1739-285 in outburst
- 4276 Swift observes a new outburst from the SFXT AX J1841.0-0536
- 4275 Swift observations of a new outburst of the SFXT IGR J17544-2619
- 4176 Swift observes a new outburst from the Supergiant Fast X-ray Transient AX J1841.0-0536
- 4095 Swift observes a new outburst from the Supergiant Fast X-ray Transient AX J1845.0-0433
- 3842 MAXI/GSC detects a quasi-regular outburst and a possible soft state transition in H 1743-322
- 3646 INTEGRAL Galactic Bulge monitoring: transient activity from KS 1741-293, MXB 1730-335, and IGR J17498-2921
- 3632 Swift detects an X-ray burst and renewed activity from KS 1741-293
- 3586 Swift observations of a new outburst of the SFXT IGR J08408-4503
- 3453 Swift detected outburst of the SFXT IGR J18410-0535/AX1841.0-0536
- 2856 INTEGRAL non-detection of enhanced Crab flux
- 2825 INTEGRAL confirms that XTE J1728-295 = IGR J17285-2922
- 2774 MAXI/GSC detects a re-brightening from the black hole candidate H 1743-322
- 2770 Swift/XRT detects new outbursts of the galactic center X-ray transients GRS 1741-2853 and XMM J174457-2850.3
- 2729 MAXI/GSC detects an X-ray outburst of RX J1709.5-2639 (XTE J1709-267)
- 2690 Swift/XRT detects renewed activity of the galactic center X-ray transient AX J1745.6-2901
- 2662 Analysis of Swift data of the June 5 outburst of the SFXT IGR J18410-0535/AX1841.0-0536
- 2520 A new outburst of the SFXT IGR J08408-4503 observed by Swift
- 2465 INTEGRAL reports renewed activity from KS 1741-293
- 2364 Renewed Activity from H 1743-322 detected by MAXI/GSC

- 2305 New X-ray Outburst in X1744-361 (A1744-36)
- 2178 Swift observations of a new outburst of the SFXT IGR J08408-4503
- 2102 Swift observations of an outburst of the SFXT AX J1845.0-0433/IGR J18450-0435
- 1739 INTEGRAL spots renewed activity from H1743-322
- 1587 New X-ray Outburst in X1744-361
- 1557 Hard X-ray activity from Aquila X-1
- 1541 Swift/XRT observations of the X-ray transients KS1741-293 and XTE J1719-291
- 1531 Chandra detects activity from the Galactic X-ray transients KS 1741-293, Swift J174535.5-290135.6 and CXOGC J174535.5-290124
- 1513 Chandra detects Swift J174535.5-290135.6 in a relatively bright state
- 1385 INTEGRAL Galactic bulge monitoring observations of GRO J1750-27 (AX J1749.1-2639), H1743-322 and SLX 1746-331
- 1302 X-ray outburst from RX J1709-2639
- 1266 Recent and past activity of the supergiant fast X-ray transient IGR J17544-2619 as seen by INTEGRAL
- 1185 INTEGRAL detects hard X-rays from SAX J1810.8-2609 during its current outburst
- 1113 4U 1608-522 in X-ray outburst
- 1105 Swift/BAT discovers a new galactic transient: SWIFT J1756.9-2508
- 1064 SAX J2103.5+4545 Continues to be observable with Swift/BAT
- 1061 Cygnus X-3 re-entering its high-soft state
- 1058 Long duration outbursts from the two X-ray bursters AX J1745.6-2901 and GRS 1741.9-2853 suggested by XMM-Newton observations
- 1028 Cygnus X-3 re-enters the low-hard state
- 1013 Chandra Detection of Three Enigmatic X-ray Transients: GRS 1741.9-2853,
- 1008 IGR J17453-2853 = Granat 1741.9-2853?
- 1007 ATCA radio observations of GX 339-4
- 1006 Renewed activity of the Galactic center transients Swift J174535.5-290135.6 and GRS 1741.9-2853 as observed with Swift/XRT
- 1005 Two active X-ray transients in the Galactic Center region as seen by INTEGRAL
- 904 Announcement of the Swift/BAT Hard X-ray Transient Monitor
- 892 Renewed activity of the very faint X-ray transient CXOGC J174535.5-290124 and continued activity of the neutron-star X-ray transient

	SAX J1747.0-2853
874	New INTEGRAL source, IGR J17354-3255, and continuation of the INTEGRAL Galactic Bulge monitoring program
756	INTEGRAL detects SWIFT J174535.5-290135.6
753	Swift/XRT detection of a transient source in the Galactic Center
734	Three active neutron star X-ray transients: SAX J1747.0-2853, XTE J1739-285 and GRS 1747-312
642	On the (hard) X-ray activity of SAX J1747.0-2853 as seen with INTEGRAL
641	Swift Observation of SAX J1747.0-2853
638	Further Chandra observations of SAX J1747.0-2853 and the region around Sgr A*
637	Renewed activity of the neutron star X-ray transient SAX J1747.0-2853
567	New Outburst of A1744-36 = XTE J1748-361
267	Discovery of the optical counterpart to XTEJ1748-361=A1744-36
265	A Second Recent Outburst of XTE J1748-361 (or A1744-36)
257	1E1740.7-2942 and KS1741-293
255	RXTE PCA Detections of Transient Activity of X-ray Bursters in the Galactic Center Region
210	Radio observations of XTE J1748-361 (=A1744-36?)
204	New X-ray Transient XTE J1748-361 (may be A1744-36)
94	Black-Hole Candidate 1E 1740.7-2942 Enters a Faint Soft State

[**Telegram Index**]

R. E. Rutledge, Editor-in-Chief

Derek Fox, Editor

Mansi M. Kasliwal, Co-Editor

`rrutledge@astronomerstelegam.org`

`dfox@astronomerstelegam.org`

`mansi@astronomerstelegam.org`