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

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Published in:
The astronomer's telegram

Citation for published version (APA):
New Swift/XRT observations confirm that the active Galactic center transient is AX J1745.6-2901

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on 25 Jul 2013; 17:09 UT
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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:
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
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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
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
3520 INTEGRAL non-detection of enhanced Crab flux
3453 Swift detected outburst of the SFXT IGR J18410-0535/AX1841.0-0536
2856 INTEGRAL confirms that XTE J1728-295 = IGR J17285-2922
2825 MAXI/GSC detects a re-brightening from the black hole candidate H 1743-322
2774 Swift/XRT detects new outbursts of the galactic center X-ray transients GRS 1741-2853 and XMM J174457-2850.3
2729 Swift/XRT detects renewed activity of the galactic center X-ray transient AX J1745.6-2901
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2465 Swift/XRT detects renewed activity of the galactic center X-ray transient AX J1745.6-2901
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