Chandra follow-up


Publication date
2017

Document Version
Final published version

Published in
The astronomer's telegram

License
Unspecified

Citation for published version (APA):
http://www.astronomerstelegram.org/?read=10428
Chandra follow-up

ATel #10428; Thomas J. Maccarone (Texas Tech University), Arash Bahramian (Michigan State), Craig Heinke, Aarran Shaw, Greg Sivakoff (Alberta), Jamie Kennea (Penn State), Rudy Wijnands, Nathalie Degenaar (Amsterdam), Jay Strader (MSU), Jean in 't Zand (SRON), Erik Kuulkers (ESA), Deepto Chakrabarty (MIT) on 25 May 2017; 18:23 UT

Credential Certification: Tom Maccarone (thomas.maccarone@ttu.edu)

Subjects: X-ray, Black Hole, Neutron Star, Transient

Referred to by ATel #: 12751

We observed Swift J1752339-290952 (ATel #10422) with Chandra with ACIS-S via a Director's Discretionary Time program. The data were taken starting on 2017-05-25 at 3:22:23 TT for ~8 ks. Eight photons were detected, indicating that the source has faded by a factor of several hundred since the original reported detection. The centroid position is RA 17:52:33.903 (h:m:s) DEC -29:09:47.95 (d:m:s), in J2000 coordinates, with the uncertainties likely to be dominated by the boresight correction and hence to be about 0.5".

The only star catalogued in Vizier that is within 3" is 1.7" away, with a UCAC5 position of RA=17:52:33.78, Dec=-29:09:47.4 in the same coordinate system as above (Zacharias et al. 2017, AJ, 153, 166). This star shows an infrared excess and blue colors (Zacharias et al. 2005, NOMAD catalog), which may make it consistent with being a Be star. The hardness of the X-ray spectrum reported earlier and the relatively rapid decay of the outburst are consistent with expectations for Be X-ray binary outbursts, but there would have to be an abnormally large boresight correction for this field for this star to be the real counterpart.

We thank the Chandra Director's office for approving this project in director's discretionary time.

Related

12751 Swift Bulge Survey detections of the X-ray transients SAX J1750.8-2900 and IGR J17445-2747
12048 INTEGRAL detects a new outburst from the NS LMXB SAX J1750.8-2900
10428 Chandra follow-up
10422 Radio Non-Detection of the New Swift Bulge Survey Transient, Swift J175233.9-290952
10419 Variability from 1SXPS J1742150-291453: a very nearby X-ray source?
10402 Correction: Chandra Localization of IGR J17445-2747
10395 Chandra Localization of IGR J17445-2447
10355 Discovery of a new X-ray transient, Swift J175233.9-290952, in the Swift Bulge Survey
10305 NIR follow-up observations of the IGR J17445-2747 field
10289 Confirmation of IGR J17445-2747 infrared counterpart
10273 IGR J17445-2747: Updated Swift position
10272 Discovery of SWIFT J174429.9-274557 - a soft X-ray counterpart of the X-ray burster IGR J17445-2747
10265 Activity of IGR J17445-2747 and SAX J1750.8-2953 in the Swift Bulge Survey
10256 First detection of a thermonuclear X-ray burst from IGR J17445-2747 (with INTEGRAL/JEM-X)
9387 Activity from SAX J1747.0-2853 and KS 1741-293 detected by INTEGRAL Galactic Bulge Monitoring
9115 Chandra detection of increased X-ray activity from SAX J1747.0-2853
8058 INTEGRAL finds renewed X-ray activity of the Neutron star X-ray transient SAX J1750.8-2900
1662 SAX J1750.8-2900 is returning to quiescence
1633 Confirmation of the NIR counterparts to SLX 1746-
ATel #10428: Chandra follow-up

331 and XTE J1810-189

1508 On the infrared counterpart to XTE J1810-189

1490 Chandra Positions for the Neutron Star X-ray Transients XTE J1810-189 and SAX J1750.8-2900

1472 A candidate near-infrared counterpart to SAX J1750.8-2900

1446 NIR counterparts in the Swift error circles of the active transients SAX J1750.8-2900 and XTE J1810-189

1441 Further Swift observations of XTE J1810-189

1273 Swift/XRT observations of INTEGRAL sources

---

Telegram Index

R. E. Rutledge, Editor-in-Chief
Derek Fox, Editor
Mansi M. Kasliwal, Co-Editor

rrutledge@astronomerstelegram.org
dfox@astronomerstelegram.org
mansi@astronomerstelegram.org