



UvA-DARE (Digital Academic Repository)

Swift confirmation and localization of the new Transient MAXI J1621-501

Bahramian, A.; Kennea, J.A.; Evans, P.A.; Beardmore, A.P.; Krimm, H.A.; Romano, P.; Yamaoka, K.; Serino, M.; Negoro, H.; Wijnands, R.; in 't Zand, J.

Published in:
The astronomer's telegram

[Link to publication](#)

Creative Commons License (see <https://creativecommons.org/use-remix/cc-licenses/>):
Unspecified

Citation for published version (APA):
Bahramian, A., Kennea, J. A., Evans, P. A., Beardmore, A. P., Krimm, H. A., Romano, P., Yamaoka, K., Serino, M., Negoro, H., Wijnands, R., & in 't Zand, J. (2017). Swift confirmation and localization of the new Transient MAXI J1621-501. *The astronomer's telegram*, 10874. <http://www.astronomerstelegam.org/?read=10874>

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.

26 Oct 2018; 08:13 UT

This space for free for your conference.

Outside

GCN
IAUCs

Other

ATel on [Twitter](#) and [Facebook](#)
[ATELstream](#)
[ATel Community Site](#)[[Previous](#) | [Next](#) | [ADS](#)]

Swift confirmation and localization of the new Transient MAXI J1621-501

ATel #10874; *A. Bahramian (MSU), J. A. Kennea (PSU), P. A. Evans, A. P. Beardmore (U Leicester), H. A. Krimm (CRESST/GSFC/USRA), P. Romano (INAF-IASFPA), K. Yamaoka (Nagoya U.), M. Serino (RIKEN), H. Negoro (Nihon U.), R. Wijnands (Amsterdam), J. In 't Zand (SRON)*

on 19 Oct 2017; 22:38 UT

Credential Certification: *Arash Bahramian (bahramian@pa.msu.edu)*

Subjects: X-ray, Binary, Neutron Star

Referred to by ATel #: [10876](#), [11067](#), [11272](#)

[Tweet](#)

Following report of a new transient by MAXI (ATel #[10869](#)), we observed the MAXI error region with a set of 7-tile Swift/XRT observations in PC mode. We detect a new bright source with enhanced coordinates RA=245.09171, Dec=-50.01989 (J2000), which translate to:

RA: 16:20:22.01
Dec: -50:01:11.6

With radial uncertainty of 3.4". This is not consistent with any previously identified X-ray source.

We extract a spectrum (and correct for pile up) from the observation and fit it with both absorbed disk blackbody and absorbed powerlaw. The absorbed diskbb provide a slightly superior fit with a reduced chi-squared of 0.94 for 17 degrees of freedom (compared to red. chi2 of 1.12 for the absorbed powerlaw, with the same number of d.o.f). The diskbb fit indicates a hydrogen column density of $N_{\text{H}}=9(-2/+3)e^{22} \text{ cm}^{-2}$, inner disk temperature of $T_{\text{in}} = 2.1(-0.5/+0.7) \text{ keV}$ and an unabsorbed flux of $2.1(-0.3/+0.5)e^{-9} \text{ erg/s/cm}^2$ in the 0.5-10 keV band.

Swift monitoring of this source is planned. Multi-wavelength observations are encouraged. We thank the Swift team for rapidly scheduling our observations.

Related

- [11317](#) Identification of AX J1620.1-5002 with MAXI J1621-501
- [11272](#) MAXI J1621-501 distance inferred from type-I X-ray bursts detected by JEM-X
- [11252](#) INTEGRAL detection of X-ray transient source AX J1620.1-5002
- [11067](#) Detection of Type-I X-ray bursts from MAXI J1621-501
- [10969](#) Brightening of MAXI J1621-501 as seen with Swift/XRT
- [10876](#) Archival Infrared Data on the New Transient MAXI J1621-501
- [10874](#) Swift confirmation and localization of the new Transient MAXI J1621-501
- [10869](#) MAXI/GSC detection of a possible new X-ray nova MAXI J1621-501 on the galactic plane

[**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