

The Astronomer's Telegram

Radio activity in H1743-322

ATel #2062;

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Following the detection of renewed activity in H1743-322 with Swift/BAT (Krimm et al., ATEL #2058 <<http://www.astronomerstelegam.org/?read=2058>>), we triggered radio observations of the source using the VLA. Observations were taken on 2009 May 27 (0855-0915 UT) at 8.4 GHz, with the array in its CnB configuration. The source was detected at a level of 2.24 +/- 0.05 mJy. The uncertainty on the absolute flux density scale is of order 5%. The source is consistent with being unresolved to the beamsize of 3.3 x 2.2 arcseconds, oriented 35 degrees E of N.

The RXTE ASM confirms the brightening of H1743-322 during May 23-28, with a flux that appears to be leveling off today at 80 mCrab (1.5-12 keV), with hardness ratios consistent with the hard state of black hole binaries. From the measured fluxes, the source would appear to lie close to the radio/X-ray luminosity correlation (Gallo, Fender & Pooley, 2003), assuming a Galactic Center distance.

VLA and VLBA observations are ongoing. Further multiwavelength observations are encouraged.