Radio Identification of the X-ray Jet in the $z=4.3$ Quasar GB 1508+5714

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abstract

The recent discovery of an X-ray jet in the $z=4.3$ quasar GB 1508+5714 by Yuan et al. (astro-ph/0309318) and Siemiginowska et al. (astro-ph/0310241) prompted a search for its radio counterpart. Here, we report the successful discovery of faint radio emission from the jet at 1.4 GHz using archival VLA data. Possible interpretations of the X-ray jet as synchrotron or inverse Compton emission off the CMB as discussed by the previous investigators are revisited in light of the new radio detection.