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VLA observations of SN 2016bau of Type Ib in NGC 3631

ATel #8911; *Atish Kamble (Harvard), Raffaella Margutti (NYU), Kate Alexander (Harvard), Edo Berger (Harvard), Matteo Cantiello (UCSB), Pete Challis (Harvard), Laura Chomiuk (Michigan State), Christiano Guidorzi (Ferrara, Italy), Robert Kirshner (Harvard), Danny Milisavljevic (Smithsonian Astrophysical Observatory), Selma de Mink (UvA, The Netherlands), Jerod Parrent (Harvard), Alicia Soderberg (Harvard), Emmanouil Zapartas(UvA, The Netherlands), Ashley Zauderer (NYU)*

on 5 Apr 2016; 19:24 UT

Credential Certification: Atish Kamble (akamble@cfa.harvard.edu)

Subjects: Radio, Supernovae, Transient

We report VLA radio observations of the Type Ib SN 2016bau (ATel #8818, #8820) in NGC 3631 (distance of 13 Mpc, according to NED).

We observed the position of the supernova with VLA at a mid-time of 2016 March 30.42 UT utilizing two basebands of ~1 GHz bandwidth each, centered at 8.6 & 11.0 GHz. We detect a radio source with a flux density of 1.0 +/- 0.03 mJy in the lower sideband (8.6 GHz) at a position consistent with the optical supernova emission. At the distance of 13 Mpc, this corresponds to a spectral luminosity of about 2×10^{26} erg/s/Hz.

Follow up radio observations are planned. Multiband and spectroscopic coverage is encouraged.

We thank the NRAO staff for carrying out this observation rapidly.

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