



Search for Magnetospheric Radio Emissions from Exoplanets

Daniel Winterhalter (1), Walid Majid (1), and Mary Knapp (2)

(1) NASA Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, United States

(daniel.winterhalter@jpl.nasa.gov, +1818 354 8895), (2) Massachusetts Institute of Technology, Cambridge, MA, United States

Using the 150 MHz receivers of the Giant Meterwave Radiotelescope (GMRT) in India, we have searched for magnetospheric emissions from several extrasolar planet targets, including HD179949, 70Vir, and Upsilon Andromedae. GMRT offers great sensitivity and aperture in this frequency range. Calibrations with GMRT at 150 MHz have confirmed the noise floor to be as low as a few mJy over a 5 MHz bandwidth, well below the expected flux levels from the targets. We are in the process of analyzing the data, and we will present the results showing radio maps and dynamic spectra.