

# Observation of Planets using the GBT

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# Observations

- Frequency: 4 - 6 GHz (C-Band)
- 4 Bands of 0.8 GHz
- 2048 channels on each band
- OFF-ON observations
- Spectral Line observations
- Sources calibrated against 3C48
- Mars, Moon, Saturn, 3C147, and Venus

# Data Reduction - STEPS

- Calibrate 3C48 with a known model
- Average both linear polarizations on sources
- Get fluxes and spectrum from calibrating the source against 3C48
- Get brightness temperature of source from the Rayleigh-Jeans Law (Blackbody assumption)
- Get physical temperature dividing by the size of the source