GBT Ultrawideband Receiver



- Frequency Range: 0.7 4 GHz
- Max instantaneous bandwidth: 3.3 GHz
- Dual linear polarization
- Target T_{sys} : 30 K
- Target gain: 1.5 2 K/Jy
- Supported backends: VEGAS pulsar mode, VEGAS spectral line mode, DCR
- Supports all existing VEGAS modes (pulsar and spectral line) with full 3.3 GHz bandwidth
- Plan for being available in 23A semester

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- Current status
 - Achieved first light and currently undergoing commissioning
 - Final performance metrics have not yet been determined
- Notes for Proposers
 - Sensitivity: Receiver is available in the **GBT sensitivity calculator** but with 25% higher T_{sys} than target value to provide a buffer for time requests
 - *RFI*: Preliminary results indicate that RFI will be no worse than when using other receivers in ~1 4 GHz range; standard RFI excision tools should be sufficient. Expect effective bandwidth to be
 - *Overhead*: Allow 20 minutes for overhead per session. This includes receiver change *and* pointing and focusing corrections
 - Note: We recommend that *all* observers perform pointing and focusing corrections when using UWBR