

Abstracts

Receiver and Optics Designs for the 100-Meter Green Bank Telescope

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A 100-meter diameter, fully steerable, offset dual reflector radio telescope is under construction at the Green Bank, West Virginia facility of the National Radio Astronomy Observatory (NRAO). Significant performance improvements are expected of the offset design over that possible with symmetrical antennas. The antenna will be capable of operation from below 300 MHz to above 40 GHz. To take full advantage of the offset design, ultra-low-noise cryogenic receivers will be constructed and installed. This paper will summarize the trade-offs made in the design of the microwave optics, and describe plans for receivers and associated equipment.

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