

## **DESIGN OF A PRIME-FOCUS DUAL-BAND FEED FOR THE GIANT METRE-WAVE RADIO TELESCOPE IN INDIA**

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The design of a dual band VHF/UHF prime focus horn for a 45m-diameter antenna is showcased. The design has been made difficult due to the compactness necessary to meet the stringent weight-limits. The paper highlights the engineering challenges and the results obtained after optimization.