

Challenges of Hardware Development for Measurement of Large Antenna Characteristics by the Extraterrestrial Radio Sources

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Abstract. This article discusses the current state of measuring technologies for the experimental study of radio characteristics of large antennas of ground control complexes in the centimeter wavelength range. The schematic diagrams and basic parameters of the prototypes of switching and correlational radiometers under development are presented, as well as the experimental results obtained with their use.

Keywords: reflector antenna, radio measurements, extraterrestrial radio source, switching and correlation radiometers