

### Technical Page

Proposal Type: Short  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Extragalactic  
 Total Time Requested: 40 Hours

**Proposal Title:** A 21-cm Study of 127 Newly Discovered, Nearby LSB Galaxies

**ABSTRACT:**

We have discovered approximately 130 new low surface brightness galaxies believed to lie with in 3,000 - 8,000 km/s, including the first known contingent of very red LSB galaxies. To determine the redshift and gas content of these objects, we propose to attempt 21-cm detection of these galaxies. Based on previous use of Arecibo to detect LSB galaxies and the improved sensitivity of the telescope, we expect easy detection within 5 minutes for most galaxies.

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**Service Observing Request**

**Remote Observing Request**

- None
- All of the observing run.
- Part of the observing run.
- Queue Observing

- No
- Maybe
- Yes

**Instrument Setup**

47 MHz CH L-band

**Atmospheric Observation Instruments:**

**Description of Observer Equipment:**

**Special Equipment or setup:** Special setup: Software needs: Media needs:

**RFI Considerations**

**Frequency Ranges Planned**

see proposal