

### Technical Page

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

**Proposal Title:** Continuation of 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 continue 21-cm detection of these galaxies. Based on use of Arecibo during the June 'commissioning phase', we expect easy detection within 1-3 5 minute ON/OFF pairs for most galaxies.

Name	Institution	E-mail	Phone	Student
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#### Service Observing Request

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

#### Remote Observing Request

- 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