

### Technical Page

Proposal Type: Regular  
 General Category: Pulsars  
 Observation Category: Galactic  
 Total Time Requested: 100 Hours

**Proposal Title:** Pilot Observations for a Drift-Scan Pulsar Search at 327 MHz

**ABSTRACT:**

We request 100 hr of telescope time to conduct a pilot drift-scan pulsar search using the new 327-MHz Gregorian receiver and the Wideband Arecibo Pulsar Processor (WAPP). Using a 30-MHz band expected to be available from the new receiver, we will be twice as sensitive to nearby low-DM pulsars as the present 430-MHz drift-scan surveys for pulsars with average spectral indices. The number detectable at 327 MHz over 430 MHz should increase by at least a factor of 2. If these expectations are confirmed, we intend to propose a more ambitious all-sky 327-MHz drift-scan survey, which would complement future ALFA (Arecibo L-band Feed Array) pulsar surveys that would favor pulsars with flatter spectra.

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**Service Observing Request**

**Remote Observing Request**

- |                                     |                            |                                     |       |
|-------------------------------------|----------------------------|-------------------------------------|-------|
| <input checked="" type="checkbox"/> | None                       | <input type="checkbox"/>            | No    |
| <input type="checkbox"/>            | All of the observing run.  | <input type="checkbox"/>            | Maybe |
| <input type="checkbox"/>            | Part of the observing run. | <input checked="" type="checkbox"/> | Yes   |
| <input type="checkbox"/>            | Queue Observing            |                                     |       |

**Instrument Setup**

327

**Atmospheric Observation Instruments:**

Special Equipment or setup: none

**RFI Considerations**

**Frequency Ranges Planned**

312-342