**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.

<table>
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<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
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</thead>
<tbody>
<tr>
<td>Paulo C Freire</td>
<td>NAIC / Cornell</td>
<td><a href="mailto:pfreire@naic.edu">pfreire@naic.edu</a></td>
<td>1 787 878-2612</td>
<td></td>
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</tbody>
</table>

**Service Observing Request**

- [X] None
- [ ] All of the observing run.
- [ ] Part of the observing run.
- [ ] Queue Observing

**Remote Observing Request**

- [ ] No
- [ ] Maybe
- [X] Yes

**Instrument Setup**

327

**Atmospheric Observation Instruments:**

**Special Equipment or setup:** none

**RFI Considerations**

**Frequency Ranges Planned**

312-342