Technical Page

Proposal Type: Long-term
General Category: Pulsars
Observation Category:
Total Time Requested: 30 hours/cycle Hours
Minimum Useful Time: 4 hours

Proposal Title: Longer, RFI-Protected, Polarimetry of Selected Faster Arecibo Pulsars

ABSTRACT:
We propose a further program of often lengthy polarimetric observations on a set of pulsars for which shorter observations have been made and found inadequate for a full analysis. Given the considerable success of past efforts and the unique significance of polarimetric pulse-sequence measurements made with the Arecibo telescope, we suggest a continuing, long term program to acquire observations of longitudinal importance both immediately for the proposers and ultimately for the pulsar-emission-problem community at large. These newer observations will benefit significantly from the fully implemented Mock spectrometers, the cooled P-band system, its 50-MHz bandwidth and in a few cases the excellent and little used C-band system.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
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<tbody>
<tr>
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<td>802/656-0051</td>
<td>no</td>
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Remote Observing Request
- Observer will travel to AO
- X Remote Observing
- In Absentia (instructions to operator)

Instrument Setup
- L-wide

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations
Frequency Ranges Planned

This proposal requires Iridium RFI protection at 1612 MHz between 10pm and 6am EST.
This proposal requires coordination with Punta Salinas radar within the band 1222-1381 MHz.
This proposal requires coordination with GPS L3 at 1381 MHz.