Technical Page

Proposal Identification No.: P2341
Date Received: 2007-Jun-01 16:43:44

Proposal Type: Long-term
General Category: Pulsars
Observation Category:
Total Time Requested: 30 hours/cycle Hours
Minimum Useful Time: 3-4 hours

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

ABSTRACT:

We propose a new program of lengthy polarimetric observations on a set of pulsars for which shorter observations have been made and found inadequate 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 importance both for the proposers and to the pulsar community at large. These new observations would benefit very significantly from the new cooled P-band system, its greater 50-MHz bandwidth and the multi-bit sampling of the new ALFA spectrometers.

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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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<tbody>
<tr>
<td>Joanna M Rankin</td>
<td>University of Vermont</td>
<td><a href="mailto:Joanna.Rankin@uvm.edu">Joanna.Rankin@uvm.edu</a></td>
<td>802/656-0051</td>
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Remote Observing Request

☐ Observer will travel to AO
☒ Remote Observing
☐ In Absentia (instructions to operator)

Instrument Setup

L-wide 327

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned
327 +/- 25 MHz and
1120 to 1670 MHz

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.