

Technical Page

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

Proposal Title: Longer, RFI-Protected, Precision Polarimetry of Selected Arecibo Pulsars II
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 benefit very significantly from the recently installed cooled P-band system, its greater 50-MHz bandwidth as well as from (in the nearer future) the multibit sampling of the fully implemented Mock spectrometers.

Name	Institution	E-mail	Phone	Student
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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

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.