

Technical Page

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

Proposal Title: Longer, RFI-Protected, Polarimetry of Selected 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 scientifically competent analysis. Given the considerable success of past efforts and the unique significance of polarimetric pulse-sequence (PPS) measurements made with the Arecibo telescope, we suggest a continuing, long term (2 years, 6 cycles) program to acquire observations of longitudinal importance both immediately for the proposers and students as well ultimately for the pulsar-emission-problem community at large. We request about 30 hours/cycle of which about 40% (or typically 12 hours/cycle) would be in the crowded 18-21-hour RA region. These newer observations will benefit greatly from the now fully implemented Mock spectrometers, the cooled P-band system, its 50-MHz bandwidth and on an experimental basis the excellent and little used C-band system.

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 C 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.