

Technical Page

This proposal has been submitted before.

The previous proposal number is P2787 similar.

Proposal Type: Regular
 General Category: Pulsars
 Observation Category:
 Total Time Requested: 45 Hours
 Minimum Useful Time: 3-4 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 scientifically competent analysis. Given the success of past efforts and the unique significance of polarimetric pulse-sequence (PS) measurements made with the Arecibo telescope, we suggest a continuing program over the next half year to conduct observations of high quality and importance both immediately for the proposers and students as well ultimately for the pulsar-emission-problem community at large. We request 45 hours during the next cycle of which about 40% (or typically 18 hours/cycle) would be in the crowded 18-22-hour RA region. These newer observations will benefit greatly from the Mock spectrometers, and some from the little used C-band system.

Name	Institution	E-mail	Phone	Student
Joanna M Rankin	University of Vermont Physics Dept.	Joanna.Rankin@uvm.edu	802/656-0051	no

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

300-352 MHz

1170-1670 MHz

4-5 GHz

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.