

## Technical Page

This proposal has not been submitted before.

Proposal Type: Regular  
 General Category: Pulsars  
 Observation Category:  
 Total Time Requested: 46 Hours  
 Minimum Useful Time: About an hour

**Proposal Title:** Pulse-Sequence Polarimetry of Selected Arecibo Pulsars

*ABSTRACT:*

We propose to continue our current programs with new targeted, sometimes lengthy polarimetric observations on selected faster and millisecond pulsars. The new observations will pursue beamform characterizations, moding phenomena, supplement our studies of core emission, study bistability and drifting effects with the ultimate aim of developing candidates for simultaneous X-ray/radio campaigns, and expand identification of the physical (X/O) propagation modes. We will also push our observations and analyses, including microstructure and intensity dependence to faster pulsars, document moding and measure new RMs. Given our past success and the unique significance of polarimetric pulse-sequence measurements made with the Arecibo telescope, we propose observations significant both immediately for the authors and their students as well the larger pulsar-emission community. We request 46 hours each during the next two cycles of which 70% (30 hours) would be in the 18-21-hour RA region.

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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.