

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category:
 Total Time Requested: 61 Hours
 Minimum Useful Time: 3 hours

Proposal Title: Absolute Polarimetric Pulse-Sequence Observations of Bright Unstudied Arecibo Pulsars

ABSTRACT:

New L and/or P-band polarimetric observations are proposed on a group of younger, faster, core-dominated and more highly dispersed pulsars. This would provide the basis for new studies of both core emission and young stars with most emission leading the magnetic axis. Followup observations would be carried out on some 6-10 demonstratedly interesting pulsars, and some 20 newer, possibly weaker pulsars would be explored polarimetrically for the first time. A representative list of 20 such stars is given in Section V of the Cover Sheet. These stars all have an expected L-band single-pulse S/N of roughly 10 or more and have received no polarimetric study as evidenced by the lack of a tabulated rotation measure. A small number of such stars lie in the anticenter direction or in the 13–17-hour RA range, but most of course lie around 19–21 hours.

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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

1100 to 1700

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.