

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category:
 Total Time Requested: 69 Hours

Proposal Title: Conal Beam Rotation and the Problems of Nulling, Drifting and Mode Changing
ABSTRACT:

We request time for pulse-sequence polarimetry of a group of some 50 pulsars, which have received little study at all or little study within the last decade. Most of the pulsars will be observed at 430 MHz, though a few require different frequencies. We will focus on obtaining observations which are well suited for the study of pulse nulling characteristics in relation to the subpulse modulation and mode-changing properties of the adjacent periods. Our focus is on a set of AO-visible stars which are not among the brightest, so the AO will be used to obtain a level of quality unachievable elsewhere, though we have also included some compatible observations aimed at specific but slightly different objectives. We expect that our observations will produce a high quality set of observations useful for a variety of purposes for many years.

Name	Institution	E-mail	Phone	Student
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Service Observing Request

- None
- All of the observing run.
- Part of the observing run.
- Queue Observing

Remote Observing Request

- No
- Maybe
- Yes

Instrument Setup

430 G 610 L-wide 327

Atmospheric Observation Instruments:

Special Equipment or setup: The WAPP and suitable recording media will be required.

RFI Considerations

Frequency Ranges Planned

320-335
425-435
1120-1220

This proposal requires coordination with Punta Salinas radar within the band 1222-1381 MHz..

This proposal requires coordination with AFTWF within the band 425-435 MHz.