

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category:
 Total Time Requested: 55 Hours

Proposal Title: Polarisation Calibration for the Arecibo Signal Processor

ABSTRACT:

We propose an extension of the high quality, full Stokes Parameter calibration procedures developed by Heiles and others for spectroscopy to a new backend based on realtime voltage processing in a PC array. Our initial scientific goals are improved precision timing of pulsars and new pulsar studies aimed at deeper understanding of the emission mechanism, although a number of other scientific projects will also greatly benefit from our backend. The PC array backend will provide a general purpose platform for new approaches in signal processing for many astronomical and atmospheric goals. We propose to have 55 hours of Arecibo observing time for this.

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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

L-wide S-low 327

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned