Technical Page

Proposal Type: Urgent
General Category: Pulsars
Observation Category: Galactic
Total Time Requested: 5.5 Hours
Minimum Useful Time: 2.75 h

Proposal Title: PUPPI Polarization Calibration

ABSTRACT:

We request 5.5 hours of time to collect polarization calibration data as part of the PUPPI instrument commissioning process. We will observe two full-sky tracks of the polarization calibrator pulsar PSR B0525+21. This will provide good parallactic-angle coverage of this bright pulsar using 4 different observing frequencies, allowing us to derive full calibration information (Mueller matrices) for the new PUPPI instrument. This calibration will be crucial for optimal NANOGrav timing and any other polarimetric observations using PUPPI. We will make the data set from this proposal public immediately so that all PUPPI users can benefit from it.

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<tr>
<th>Name</th>
<th>Institution</th>
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<th>Phone</th>
<th>Student</th>
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<tbody>
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</tbody>
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Remote Observing Request

- Observer will travel to AO
- Remote Observing (X)
- In Absentia (instructions to operator)

Instrument Setup

430 G L-wide S-low 327

Atmospheric Observation Instruments:

Special Equipment or setup: PUPPI, with ASP as secondary (not required) backend

RFI Considerations

Frequency Ranges Planned
This proposal requires coordination with Punta Salinas radar within the band 1222-1381 MHz.
This proposal requires coordination with GPS L3 at 1381 MHz.