Technical Page

Proposal Type: Regular
General Category: Pulsars
Observation Category: 
Total Time Requested: 17.5 Hours

Proposal Title: Pilot Polarization Observations Using the WAPP: Geodetic Precession of B1913+16

ABSTRACT:

The proposed work is aimed at (1) developing pulsar polarization capability using the NAIC's new correlator system, WAPP = Wideband Arecibo Pulsar Processor; (2) making appropriate polarization observations on pulsars to determine cross-coupling parameters for the Gregorian feed system at 1.4 GHz; and (3) making current epoch polarization measurements on the Hulse-Taylor binary pulsar, B1913+16, to compare with those obtained at Arecibo in 1988-1993. From these we will continue our modeling of the pulsar beam and estimate the level of geodetic precession that is thought to occur in this pulsar.

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<tr>
<th>Name</th>
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<tbody>
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Instrument Setup

L-wide

Atmospheric Optical Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

1350 - 1450 (approximately)