Proposal Identification No.: P1386 Date Received: 2000-Feb-01_17:29:15

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.

Name	Institution	E-mail	Phone	Student
James M Cordes	Astronomy Department, Cornell University	cordes@spacenet.tn.cornello.edu	607 255 0608	no

Instrument Setup

L-wide

Atmospheric Optical Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

1350 - 1450 (approximately)