Proposal Identification No.: P2018 Date Received: 2004-Oct-01_20:31:44

Technical Page

Proposal Type:	Regular
General Category:	Pulsars
Observation Category:	Galactic
Total Time Requested:	54 Hours

Proposal Title: PSR B1534+12: Campaign Observations

ABSTRACT:

Our observations of the the double-neutron-star binary PSR B1534+12 have recently resulted in a new and unique test of the geodetic precession rate prediction of General Relativity. We now request a session of 14 consecutive observing days, from 1345 to 1700 LST, for observations of this pulsar at 327, 430 and 1400 MHz, including daily continuum-source calibration. During this time, we also request three transits of PSR B1929+10, from 1800 to 2045, for the purpose of polarization calibration. This proposal has the important dual goals of obtaining high-quality timing data with which to refine the orbital parameters, and collecting high signal-to-noise profiles to refine our measurement of the rate of geodetic precession.

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Service Observing Request

- [X] None
- [ ] All of the observing run.
- [ ] Part of the observing run.
- [ ] Queue Observing

Remot e Observing Request

- [X] No
- [ ] Maybe
- [ ] Yes

Instrument Setup

430 G L-wide 430 CH receiver 327

Atmospheric Observation Instruments:

Description of Observer Equipment: We will use ASP and Mark IV in addition to the WAPPs

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

1120-1220
1320-1520
312-342
423-438

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

This proposal requires coordination with GPS L3 at 1381 MHz.