

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 60.25 Hours
 Minimum Useful Time: 1.5 hours per block

Proposal Title: Timing the Double Neutron Star PSR B1534+12

ABSTRACT:

Our timing and profile-variation observations of the double-neutron-star binary PSR B1534+12 continue to provide high-precision tests of strong-field gravity and a unique probe of the general-relativistic geodetic precession rate of the pulsar’s spin axis. Here we request 1) 8 90-minute observing sessions (approximately LST 14:30–16:00) over the course of the next year 2) a campaign of 14 consecutive observing days (LST 13:45–17:00) plus one track (LST 18:00-20:45) of the polarization calibrator PSR B1929+10. These observations will push the precision of our quantitative results even further.

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Remote Observing Request

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

Instrument Setup

430 G L-wide 327

Atmospheric Observation Instruments:

Description of Observer Equipment: ASP, Mark IV

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

420-440

1120-1220

1320-1520

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

This proposal requires coordination with GPS L3 at 1381 MHz.