

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 9 h Hours
 Minimum Useful Time: 90 min.

Proposal Title: Long-term Timing of 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 probe of the general-relativistic geodetic precession rate of the pulsar’s spin axis. Here we request 6 90-minute observing sessions (approximately LST 1430–1600) over the course of the next year to monitor changes in the spin properties of and the dispersion measure to this pulsar. These observations are vital to ensure the long-term quality of the data set on this pulsar.

Name	Institution	E-mail	Phone	Student
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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

Atmospheric Observation Instruments:

Description of Observer Equipment: ASP and PUPPI (once available)

Special Equipment or setup: none

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.