

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 57.25 Hours
 Minimum Useful Time: 75 minutes

Proposal Title: A Comprehensive Study of General Relativity using PSR B1534+12

ABSTRACT:

Our regular observations of the double-neutron-star (DNS) binary PSR B1534+12 continue to provide high-precession tests of gravitational theory, through studies of pulsar timing and long-term profile variation due to geodetic precession. Here we request 1) six 90-minute observing sessions (approximately LST 1430-1600) over the course of the next year, and 2) a campaign of 14 consecutive observing days (LST 1345-1700) plus one track (LST 1800-2045) of the polarization calibrator PSR B1929+10, preferably to be scheduled in summer 2012.

Name	Institution	E-mail	Phone	Student
Emmanuel Fonseca	The University of British Columbia (UBC)	efonseca@phas.ubc.ca	604-218-5426	G

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, PUPPI

Special Equipment or setup: Both instruments are needed for each run.

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.