Proposal Identification No.: P2990 Date Received: 2015-Mar-02_03:01:52

Technical Page

This proposal has not been submitted before.

Proposal Type:	Regular
General Category:	Pulsars
Observation Category:	Galactic
Total Time Requested:	52.75 Hours
Minimum Useful Time:	90 minutes

Proposal Title: Long-term Timing of the Relativistic Binary Pulsar PSR B1534+12

ABSTRACT:

Pulsars in relativistic binary systems have provided the most rigorous tests of gravitation in strong fields to date, and PSR B1534+12 continues to be a valuable high-precision laboratory for gravitational physics. The PUPPI backend provides even greater opportunities for substantial improvements in relativistic-parameter precision, significant measurement of relativistic spin precession, and additional pulsar astrophysics as described below. We request 1) six 90-minute epochs (approximately LST 1430-1600) over the course of the next observing 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 between July and August 2015.

Name	Institution	E-mail	Phone	Student
Emmanuel Fonseca	The University of British Columbia	efonse	604-218-5426	G

Remote Observing Request

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

Instrument Setup

430 G L-wide

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

422 - 442 MHz
1150 - 1730 MHz

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

This proposal requires coordination with GPS L3 at 1381 MHz.