Technical Page

This proposal has not been submitted before.

Proposal Type: Regular
General Category: Pulsars
Observation Category: Galactic
Total Time Requested: 7.5 Hours
Minimum Useful Time: 90 min

Proposal Title: A Comprehensive Study of Relativistic Gravity using PSR B1534+12

ABSTRACT:

PSR B1534+12 continues to be a valuable high-precision laboratory for gravitational physics in extreme environments. The PUPPI backend provides even greater opportunities for substantial improvements in relativistic-parameter precision, significant measurement of relativistic precession of the pulsar’s spin axis, and additional studies in pulsar astrophysics as described in the attached proposal. We request nine 90-minute epochs (approximately LST 1430-1600) over the course of the next observing year.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
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<tbody>
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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:

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.