Technical Page

Proposal Type: Regular
General Category: Pulsars
Observation Category: Galactic
Total Time Requested: 51 Hours

Proposal Title: PSR B1534+12: Campaign Observations

ABSTRACT:

We request a session of 14 consecutive observing days, from 1345 to 1700 LST, for observations of the binary pulsar B1534+12 at 430 and 1400 MHz, including daily continuum-source calibration. During this time, we also request two transits of PSR B1929+10, from 1800 to 2045, for the purpose of polarization calibration. This proposal has the important dual goals of obtaining high-quality timing data with which to refine the orbital parameters, and collecting high signal-to-noise profiles as part of a series with which we are monitoring the secular profile shape changes due to general-relativistic geodetic precession.

<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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<td>no</td>
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</tbody>
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Service Observing Request

- [X] None
- [ ] All of the observing run.
- [ ] Part of the observing run.
- [ ] Queue Observing

Remote Observing Request

- [ ] No
- [X] Maybe
- [ ] Yes

Instrument Setup

430 CH receiver L-narrow

Atmospheric Observation Instruments:

Description of Observer Equipment: Princeton Mark IV and ASP, possibly WAPP

Special Equipment or setup: none

RFI Considerations
Frequency Ranges Planned

425-435
1350-1450

This proposal requires coordination with Punta Salinas radar within the band 1222-1381 MHz.
This proposal requires coordination with GPS L3 at 1381 MHz.
This proposal requires coordination with AFTWF within the band 425-435 MHz.