

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 36 Hours

Proposal Title: PSR B1534+12: Timing and Monitoring Geodetic Precession

ABSTRACT:

We request a session of 12 consecutive observing days, from 1400 to 1700 LST, for observations of the binary pulsar B1534+12, primarily at 1.4 GHz. Our principal scientific goals are to obtain high quality profiles as part of a series with which we are monitoring and attempting to quantify the long-term general-relativistic geodetic precession, and to acquire a further set of timing data with good orbital coverage, allowing us to refine the relativistic timing parameters.

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Instrument Setup

610 L-wide 430 CH receiver L-narrow

Atmospheric Optical Instruments:

Description of Observer Equipment: Princeton Mark IV pulsar observing system

Special Equipment or setup: We will also use the user-owned, public-access Princeton Mark III system and the facility AWPP.

RFI Considerations

Frequency Ranges Planned

1350-1450
 425-435
 609-614
 1125-1135

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.