

Technical Page

This proposal has been submitted before.

The previous proposal number is P2789.

Proposal Type: Regular
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 63 Hours
 Minimum Useful Time: 1.25 hours for Outer-Galaxy sessions, and 1.5 hours for Inner-Galaxy sessions

Proposal Title: Follow-up timing of pulsars discovered by the PALFA survey

ABSTRACT:

We request a total of 90 hours over the course of a year to continue follow up PALFA discoveries as part of the P2789 project. We propose to monitor 6 long-period pulsars, 5 millisecond pulsars (MSPs), and 5 RRAT in order to derive precision timing solutions. In addition, we request a further 4 "placeholders" in anticipation of expected confirmations and discoveries before the next semester start. All proposed pulsars shall be observed for at least a full year in order to reduce covariances between the spin and astrometric parameters. Among our targets are five binary systems, including a young pulsar in an eccentric binary and a surprisingly eccentric 15-hour orbit MSP for which we wish to measure relativistic effects. We request that this project be given temporary continuing status for the next semester proposal submission.

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Remote Observing Request

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

Instrument Setup

L-wide

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

This proposal requires Iridium RFI protection at 1612 MHz between 10pm and 6am EST.

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

This proposal requires coordination with GPS L3 at 1381 MHz.