

Technical Page

This proposal has not been submitted before.

Proposal Type: Regular
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 40 Hours
 Minimum Useful Time: 1.5 h

Proposal Title: Timing Five Millisecond Pulsars Found in Fermi Unidentified Sources

ABSTRACT:

We propose timing observations over a span of one year of five binary millisecond pulsars found in Fermi gamma-ray unidentified sources. Obtaining ephemerides for these sources will allow us to check for the presence of gamma-ray pulses by folding Fermi photon data. Pulsars emitting in both radio and gamma rays offer a window into the pulsar emission mechanism simultaneously at two different energy bands. Timing observations will also allow us to assess the suitability of these pulsars for inclusion in Pulsar Timing Arrays and tests of theories of gravity.

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Remote Observing Request

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

Instrument Setup

327

Atmospheric Observation Instruments:

Special Equipment or setup: See description above of constraints on days/sessions requested.

RFI Considerations

Frequency Ranges Planned

1150 - 1730
302 - 352
422 - 442

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.