

Technical Page

This proposal has not been submitted before.

Proposal Type: Regular
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 6.75 Hours
 Minimum Useful Time: 0.5 h

Proposal Title: Timing a New Millisecond Pulsar Found in a Low-Latitude Fermi Unidentified Source

ABSTRACT:

We propose to time the new millisecond pulsar J1845+02 over a year. This MSP was discovered in a Fermi unidentified source in our search of such sources at low Galactic latitudes (p2860). The rotation period is 4.3 ms, and the orbital period is ~ 5.3 days. This pulsar is a good candidate for Pulsar Timing Arrays as it is relatively bright, has sharp profile features, and is not in an interacting binary system. A radio timing solution will also enable us to search for gamma-ray pulsations in Fermi data.

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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

1100 - 1900

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.