

Technical Page

Proposal Type: Urgent
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 10 Hours
 Minimum Useful Time: 30 minutes.

Proposal Title: Timing PSR J2214+30, a New gamma-ray Millisecond Pulsar Candidate

ABSTRACT:

We propose to time a new millisecond pulsar discovered in radio searches of an unidentified Fermi source. The objective is to improve the radio pulsar ephemeris, which will be vital to verify whether this is indeed a gamma-ray pulsar. The pulsar is bright, and the timing precision is likely to be excellent, so we also propose to investigate whether this object is suitable for inclusion in the array of pulsars now being used to search for gravitational waves.

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Remote Observing Request

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

Instrument Setup

L-wide S-low 327 ALFA

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

302-352
1225-1525 (ALFA)
1170-1660 (L-wide)
2000-2400 (S-low)

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.