

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category:
 Total Time Requested: 22 Hours

Proposal Title: Tests of the Most Precise Pulsar Timing

ABSTRACT:

Recent high-precision pulsar timing data from pulsars J1713+07 and B1937+21 show that pulse arrival times sometimes wander systematically over the course of a half-hour scan. The drifts, up to 0.5 microseconds, are unexpected in such stable millisecond pulsars, and modestly larger than expected from simple scattering theory. To characterize the trends more thoroughly, we propose long (rise-to-set), multifrequency observations of these sources.

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I NA want to do remote observing.

Instrument Setup

L-wide S-low

Atmospheric Optical Instruments:

Description of Observer Equipment: Princeton Mark4 pulsar backend Arecibo-Berkeley Pulsar

Processor (ABPP)

Special Equipment or setup: none

RFI Considerations**Frequency Ranges Planned**