

Technical Page

Proposal Type: Short
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 1 Hours
 Minimum Useful Time: 1hr

Proposal Title: Redo After Equipment Problem: NANOGrav precision timing, ISM irregularities toward pulsar B1937+21

ABSTRACT:

We propose re-observing for an hour of lost time on project P2676, observing pulsar B1937+21 with PUPPI at L-band. The error occurred due to an unforeseeable equipment failure with two aspects. The first occurred during an in-person observing session when the entire system of PUPPI's GPU nodes became non-responsive for a half hour during our scheduled time. Later, upon first analyzing the data, it quickly became clear that even the good data from the second half hour of the observing session was problematic. After correspondence with colleagues, we discovered that the error was in the instrument's electronics, and that it had been present before our observation. In light of these two independent instrumental problems which had occurred during our first hour of observing time (followed by successful remote follow-up observations), we request an additional hour on B1937+21 during the late afternoon/early evening hours. This can easily be done remotely.

Name	Institution	E-mail	Phone	Student
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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

1150 - 1730 MHz

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