

Technical Page

This proposal has not been submitted before.

Proposal Type: Urgent
 General Category: Pulsars
 Observation Category:
 Total Time Requested: 6 Hours
 Minimum Useful Time: 1 hour

Proposal Title: Timing the Fermi Radio Pulsar J0357+3205 Discovered by FAST

ABSTRACT:

We propose exploratory AO observations to determine the feasibility of a longer term timing project for a recently discovered pulsar J0357+3205. This pulsar was found in a targeted observation with the FAST telescope at low frequencies and is consistent with the known properties of the Fermi gamma ray pulsars J0357.8+3205. Because FAST is currently commissioning an L-band system, and 0.3-1 GHz observations are currently not available with it, we would like to use Arecibo to follow up this source. Here we request 6 one hour blocks over the course of two weeks to assess the detectability of this pulsar with Arecibo at 430 MHz.

Name	Institution	E-mail	Phone	Student
Duncan Ross Lorimer	West Virginia University	duncan.lorimer@gmail.com	3042900417	no

Remote Observing Request

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

Instrument Setup

430 G

Atmospheric Observation Instruments:

Special Equipment or setup: Standard pulsar processing.

RFI Considerations

Frequency Ranges Planned