

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 6 Hours

Proposal Title: Search for Giant Pulses in Three High Edot Pulsars

ABSTRACT:

We propose to make observations using the WAPP of the pulsars J1930+1852, B1951+32, and J1913+1011 in order to prove a correlation between the Edot of a pulsar and the presence of giant pulses. We believe we will be successful in finding giant pulses in these pulsars because they possess high Edots, a characteristic shared by the Crab Pulsar, PSR B1937+21, PSR B0540-69, and B1821 and #8722;24; four of the few currently known giant pulse emitters. These pulsars have been monitored, however there have been no specific searches completed for giant pulses. We expect that with the 6 hours we have applied for, we will observe giant pulses in all three pulsars.

| Name | Institution | E-mail | Phone | Student |
|------------------|-------------|-------------------|--------------------|---------|
| Melissa A Ilardo | | ilardom@ncssm.edu | (1) (704) 608-4002 | U |

Service Observing Request

Remote Observing Request

- None
- All of the observing run.
- Part of the observing run.
- Queue Observing

- No
- Maybe
- Yes

Instrument Setup

430 G L-wide 327

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

422-442 MHz
1.15-1.73 GHz

This proposal requires coordination with GPS L3 at 1381 MHz.