

Technical Page

Proposal Type: Regular
General Category: Pulsars
Observation Category:
Total Time Requested: 32 Hours

Proposal Title: Ultra-High Time Resolution Measurements of the Crab "Giant" Radio Pulses
ABSTRACT:

We propose to obtain a complete set of high- and ultra-high time resolution measurements of the Crab Nebula pulsar's "giant" pulses for the purpose of studying the giant pulse phenomenon and for distinguishing among various theoretical models of the emission process.

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Service Observing Request

Remote Observing Request

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

- No
- Maybe
- Yes

Instrument Setup

L-wide S-low C X-high

Atmospheric Observation Instruments:

Description of Observer Equipment: We will use the fast data acquisition systems constructed by

New Mexico Tech.

Special Equipment or setup: None.

RFI Considerations

Frequency Ranges Planned

1120-1220
1360-1460

2100-2200
2800-2900
4100-5800
8-10 GHz

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

This proposal requires coordination with GPS L3 at 1381 MHz.