Technical Page

Proposal Type: Regular
General Category: Pulsars
Observation Category: 24 Hours


ABSTRACT:

We propose to continue our investigation of giant pulses from the Crab pulsar. We intend to measure these pulses at 0.5 ns resolution to compare the observed structure with the results of detailed theoretical modeling of the radio emission mechanism.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
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</thead>
<tbody>
<tr>
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<td>no</td>
</tr>
</tbody>
</table>

Service Observing Request

- [X] None
- [ ] All of the observing run.
- [ ] Part of the observing run.
- [ ] Queue Observing

Remote Observing Request

- [X] No
- [ ] Maybe
- [ ] Yes

Instrument Setup

C X-high

Atmospheric Observation Instruments:

Description of Observer Equipment: We will use the New Mexico Tech voltage recording system currently installed at Arecibo Observatory.

Special Equipment or setup: The limited bandwidth of the fiber optic IF system requires an auxiliary set of mixers. Refer to the scientific justification for more details.

RFI Considerations
Frequency Ranges Planned

4000-6000; 8000-10000