Technical Page

Proposal Type: Regular
General Category: Pulsars
Observation Category: 
Total Time Requested: 67 Hours

Proposal Title: A Search for Giant Pulses from M33 and Nearby Globular Clusters

ABSTRACT:

We propose a search for ‘giant’ pulses from Crab-like objects (in the spiral galaxy M33) and fast pulsars (in globular clusters) too weak to be detected by their average fluxes. Discovering more Crab-like pulsars will aid understanding of pulsar formation. Finding fast, recycled pulsars may constrain binary system evolution and the NS equation of state. Furthermore, finding more ‘giant pulsars ’ is necessary to understand the emission physics of the giant pulse phenomenon.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maura A McLaughlin</td>
<td>Cornell University</td>
<td><a href="mailto:mclaughl@spacenet.tn.cornell.edu">mclaughl@spacenet.tn.cornell.edu</a></td>
<td>(607)255-6438</td>
<td>G</td>
</tr>
</tbody>
</table>

Service Observing Request

Remot e Observing Request

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

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

Instrument Setup

430 MHz CH receiver

Atmospheric Observation Instruments:

Description of Observer Equipment:

Special Equipment or setup: Special setup: AOTM, Coherent Data Recorder  
Software needs:  
Media needs: Mammoth tapes (for AOTM data)

RFI Considerations
Frequency Ranges Planned

see proposal