Technical Page

Proposal Type: Long Term
General Category: Pulsars
Observation Category: 200 Hours

Proposal Title: A New Sensitive Survey for Millisecond and Sub-millisecond Pulsars at Intermediate Galactic Latitudes

ABSTRACT:

We propose to use the 430 MHz carriage house receiver and the PSPM to carry out a search for millisecond and sub-millisecond pulsars at intermediate Galactic latitudes. This search sensitivity to rapidly rotating pulsars (0.5 mJy) represents at least a factor of two improvement over previous searches. We thus expect the search to make a significant contribution to our understanding of the population of neutron stars with rotation periods close to the theoretical break-up periods (0.5 ms).

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<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
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<tbody>
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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

430 MHz Gregorian 430 MHz CH receiver

Atmospheric Observation Instruments:

Description of Observer Equipment: CBR

Special Equipment or setup: Special setup: Software needs: Media needs: DLTs

RFI Considerations
Frequency Ranges Planned

see proposal