

Technical Page

Proposal Type: Regular
 General Category: Pulsars
 Observation Category: Galactic
 Total Time Requested: 46 Hours

Proposal Title: Pulsar Distance and Galactic Electron Density Determinations via 21 cm Absorption Measurements

ABSTRACT:

We propose to measure neutral hydrogen absorption spectra of distant pulsars. We will use these spectra and a galactic rotation model to kinematically determine the pulsar distances. The measured distance and dispersion measure together yield the mean electron density along the line of sight. These measurements will be used to calibrate galactic electron density models, which are essential for pulsar population studies.

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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-band

Atmospheric Observation Instruments:

Description of Observer Equipment:

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

RFI Considerations

Frequency Ranges Planned

see proposal