

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Galactic
 Total Time Requested: 70 Hours

Proposal Title: The Fifth Session of Pulsar HI Absorption Measurements of Tiny-Scale Atomic Structure in the Interstellar Medium

ABSTRACT:

We have measured HI absorption spectra toward six pulsars using the Arecibo telescope at four different epochs to study prevalence of the tiny-scale atomic structure in the interstellar medium. We wish to extend our observations to somewhat larger time (spatial) scales. These proposed measurements, when combined with our earlier results, will enable us to determine the relative importance of structure over a large range of (small) scales, from 1 to 700 AUs. This information will help us to select between different theoretical explanations of its existence.

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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

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

