

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Galactic
 Total Time Requested: 12 Hours

Proposal Title: Finishing Mapping Dark Clouds with HI Narrow Line Absorption

ABSTRACT:

We proposal to extend our HI narrow line absorption and OH maps of four dark clouds. Combined with data from other instruments (CO, C18O, 13CO, and CI), our recent Arecibo HI survey of dark clouds proves conclusively the association of HINLA and molecular clouds. The spatial extent is critical in assessing the volume density of cold HI, and thus differentiating different H2 formation models. Due to the large angular size of selected sources, we ask for more time to complete mapping dark clouds in HINLA.

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Service Observing Request

Remote Observing Request

- | | |
|---|--|
| <input checked="" type="checkbox"/> None
<input type="checkbox"/> All of the observing run.
<input type="checkbox"/> Part of the observing run.
<input type="checkbox"/> Queue Observing | <input type="checkbox"/> No
<input type="checkbox"/> Maybe
<input checked="" type="checkbox"/> Yes |
|---|--|

Instrument Setup

L-wide

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned