Technical Page

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

ABSTRACT:

We propose 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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<th>Name</th>
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Service Observing Request

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

Remote Observing Request

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

Instrument Setup

L-wide

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned