

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Galactic
 Total Time Requested: 4.9 Hours

Proposal Title: HI self-absorption study of dark clouds

ABSTRACT:

We propose observing atomic hydrogen inside dark clouds through 21 cm self-absorption. The OH (1665 MHz and 1667 MHz) will be observed simultaneously. With highest angular resolution and finest velocity resolution of HI dark-cloud maps ever achieved, the data set will reveal velocity structure and column density in HI and provides a good look at important chemistry issues, e.g., ionization ratio within dark clouds.

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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: Software needs: Media needs:

RFI Considerations

Frequency Ranges Planned

see proposal