

Technical Page

This proposal has not been submitted before.

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Galactic
 Total Time Requested: 43.4 Hours
 Minimum Useful Time: 35 min

Proposal Title: Chemistry Evolution of Dark Clouds at Different Galactic Latitudes

ABSTRACT:

Dark clouds are believed to be the sites of star formation in the Milky Way. OH and CH are believed to trace H₂ better than CO in the low density region of dark cloud. Besides, the scale sizes of various interstellar medium components are different due to the Galactic dynamics and interstellar pressure. We propose HI, OH and CH survey toward 50 dark clouds at different Galactic latitudes to investigate interstellar medium evolution under various environments.

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Remote Observing Request

- Observer will travel to AO
- Remote Observing
- In Absentia (instructions to operator)

Instrument Setup

L-wide S-high

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

1410-1440 1640-1670 1710-1740 3320-3370