

Technical Page

Proposal Type: Long-term
 General Category: Astronomy
 Observation Category: Galactic
 Total Time Requested: 80 hours Hours

Proposal Title: Dynamical Study of HI in Two High-Latitude Clouds

ABSTRACT:

We propose to map the HI 21 cm line in and around two high-latitude molecular clouds in order to continue our study of the velocity field of the gas in these objects. Our previous work has focussed on studying the velocity field of the molecular gas in the clouds and autocorrelations analyses have revealed clear traces of coherent structures. These structures are a typical signature of turbulence in external shear flows. In order to complement our molecular analysis we wish to obtain atomic data in order to quantify the relationship between the internal velocity field of the clouds and their external environment.

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Instrument Setup

L-narrow

Atmospheric Optical Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned