

Technical Page

This proposal has not been submitted before.

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Galactic
 Total Time Requested: 40 Hours
 Minimum Useful Time: 1 hour

Proposal Title: H₂CO Observations of the Diffuse Molecular Cloud MBM 40

ABSTRACT:

In order to study the turbulence characteristics of the diffuse molecular cloud MBM 40, we would like to map 4 small regions (for which we have CO, CS, and HCN data) in the 4830 MHz line of formaldehyde. In particular, we are using this line as a tracer of the volume density so that we can clarify whether or not our CO results are primarily due to optical depth effects or whether they sample the entire line of sight.

Name	Institution	E-mail	Phone	Student
Loris Magnani	University of Georgia	loris@physast.uga.edu	706-5422876	no

Remote Observing Request

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

Instrument Setup

C

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

4500 - 5100