

Technical Page

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

Proposal Title: CH 3 GHz Observations of MBM 03

ABSTRACT:

We propose to observe the CH 3335 MHz line in the translucent cloud MBM 03 in order to calibrate the CO - H2 conversion factor following the technique outlined by Magnani and Onello (1995). An accurate determination of the CO - H2 conversion factor will permit us to reliably determine column density and masses for the nearly 1 square degree region we have mapped in the CO(1-0) transition in this cloud. With accurate mass determinations, we can apply statistical techniques to the CO data set to determine the turbulence properties of the cloud.

Name	Institution	E-mail	Phone	Student
Loris Magnani	University of Georgia	loris@hal.physast.uga.edu	706-542-2876	no

Service Observing Request

Remote Observing Request

- None
- All of the observing run.
- Part of the observing run.
- Queue Observing

- No
- Maybe
- Yes

Instrument Setup

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

3250 - 3400 MHz