Technical Page

This proposal has not been submitted before.

Proposal Type:	Regular
General Category:	Astronomy
Sub-Category:	Spectroscopy
Observation Category:	Galactic
Total Time Requested:	38 Hours
Minimum Useful Time:	20 min

Proposal Title: Planck Cores in Multiple Bands

ABSTRACT:

Star formation occurs when the diffuse atomic ISM condenses into cold molecular clouds. The process and time scale of this transition, however, is little understood. CO and CH are both tracers of molecular hydrogen, but while CO is used to trace molecular gas, it provides poor constraint to the ratio of molecular to atomic hydrogen, particularly in the transition zone due to its varying abundance. In order to understand the transition from atomic to molecular hydrogen, it is necessary to measure multiple species at different stages of cloud chemistry.

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Remote Observing Request

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

Instrument Setup

S-high

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

3200-3400