

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category:
 Total Time Requested: 28 Hours

Proposal Title: An 8-10 GHz spectral line survey of G34.3+0.15

ABSTRACT:

Molecular line studies of the earliest phases of massive star formation in the sub/millimetric range have produced great advances in our knowledge of their physical and chemical conditions. However, molecular studies at low frequencies have been neglected although they can be used to characterize the chemistry at low temperature and density and could also provide a list of molecular tracers to probe the physical condition of massive protostars. We propose to perform the first molecular line search of the star-forming region G34.3+0.15 in the 8-10 GHz frequency range to obtain this information.

Name	Institution	E-mail	Phone	Student
Mayra E. Lebron	Arecibo Observatory	mlebron@naic.edu	787-878-2612 x254	no

Service Observing Request

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

Remote Observing Request

- No
- Maybe
- Yes

Instrument Setup

X-high

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

7800 -10200