

### Technical Page

Proposal Type: Regular  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Galactic  
 Total Time Requested: 18 Hours  
 Minimum Useful Time: 1 hour

**Proposal Title:** An Arecibo Survey for H<sub>2</sub>CO Masers toward Non-Massive Star Forming Regions  
*ABSTRACT:*

At present, formaldehyde (H<sub>2</sub>CO) 6 cm masers have been detected only toward 7 regions in the Galaxy; in all cases the masers have been found toward massive star forming regions. Given that the first H<sub>2</sub>CO masers were found in regions of massive star formation, the subsequent surveys have targeted primarily this kind of objects, and no dedicated survey has been conducted toward non-massive star forming regions. We propose to conduct the first survey exclusively focused on the search for H<sub>2</sub>CO masers toward non-massive star forming regions.

Name	Institution	E-mail	Phone	Student
Esteban Araya	New Mexico Tech and NRAO	earaya@nrao.edu	505 252 3747	G

### Remote Observing Request

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

### Instrument Setup

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### Atmospheric Observation Instruments:

Special Equipment or setup: none

### RFI Considerations

### Frequency Ranges Planned

