

## Technical Page

Proposal Type: Regular  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Extragalactic  
 Total Time Requested: 25 Hours  
 Minimum Useful Time: 60 min

**Proposal Title:** Follow-up Observations for the All-Stokes, All-Line Survey of OH Megamasers  
**ABSTRACT:**

Luminous infrared galaxies host OH megamasers, and are also home to extreme star formation. The Zeeman splitting of OH emission in these sources may be detected, providing measurement of the magnetic field within these star forming regions. The authors recently undertook a survey of all OH megamasers visible to Arecibo in full-Stokes mode. Five sources surveyed need wider bandwidth to be fully characterized. This will complete the systematic search for satellite lines in OH megamasers.

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### Remote Observing Request

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

### Instrument Setup

L-wide

### Atmospheric Observation Instruments:

**Special Equipment or setup:** none

### RFI Considerations

### Frequency Ranges Planned

1268-1280  
1305-1330  
1353-1483  
1493-1505  
1588-1600  
1635-1660  
1695-1707

This proposal requires coordination with Punta Salinas radar within the band 1222-1381 MHz..

This proposal requires coordination with GPS L3 at 1381 MHz.