

## Technical Page

Proposal Type: Long Term  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Galactic  
 Total Time Requested: 7 every two months Hours

**Proposal Title:** To monitor OH/IR stars in 1612, 1665 and 1667 MHz OH lines

**ABSTRACT:**

I am seeking to initiate a 3-4 yr program monitoring the OH masing lines in the circumstellar shells of a set of OH/IR stars covering a range of IR colors. Light curves of intensity changes in discrete features from each shell can provide direct evidence for the operation of competitive gain between masing transitions, through the observation of systematic phase delays between changes in line- intensities at the same velocity.

| Name           | Institution | E-mail          | Phone        | Student |
|----------------|-------------|-----------------|--------------|---------|
| B Murray Lewis | NAIC        | blewis@naic.edu | 787 878 2612 | N       |

**Service Observing Request**

**Remote Observing Request**

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> None<br><input type="checkbox"/> All of the observing run.<br><input type="checkbox"/> Part of the observing run.<br><input type="checkbox"/> Queue Observing | <input checked="" type="checkbox"/> No<br><input type="checkbox"/> Maybe<br><input type="checkbox"/> Yes |
|---|--|

**Instrument Setup**

L-band

**Atmospheric Observation Instruments:**

**Special Equipment or setup:** Software needs: Media needs:

**RFI Considerations**

**Frequency Ranges Planned**

see proposal