

## Technical Page

Proposal Type: Long-term  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Galactic  
 Total Time Requested: 50 Hours

**Proposal Title:** Followup on "Births" and "Deaths" among Arecibo OH/IR Stars

*ABSTRACT:*

This proposal seeks telescope time to (i) follow three newly- born OH/IR stars through their pulsation cycle; (ii) to confirm recent weak (10-20 mJy) 1612 MHz detections from mimics; (iii) to characterise the status of the weakest set of objects from the original survey; (iv) to followup five instances where 1612 MHz masers appear to have faded during the last decade, in case there are resurrections; (v) to review sources with past evidence of secular evolution in their structure (IRC+10420, 19566+3423).

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I do NOT want to do remote observing.

**Instrument Setup**

L-wide

**Atmospheric Optical Instruments:**

**Special Equipment or setup:** none

**RFI Considerations**

**Frequency Ranges Planned**