

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Galactic
 Total Time Requested: 30 Hours

Proposal Title: A search for newly born OH/IR stars

ABSTRACT:

About 75% of color-selected, $|b| > 10$ deg, circumstellar shells do not exhibit 1612 MHz masers, though many of these OH/IR star color "mimics" are O-rich Miras. For over 10 years the unexpected existence of mimics has highlighted a serious gap in our understanding of circumstellar shells. Now, in V1511 Cyg, we have a prototype for demonstrating that many of them are likely to be the immediate precursors of OH/IR stars. This proposal is aimed at increasing confidence in this view by discovering more newly born OH/IR stars.

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I NA want to do remote observing.

Instrument Setup

L-wide

Atmospheric Optical Instruments:

Special Equipment or setup: none

RFI Considerations**Frequency Ranges Planned**

1600-1670 MHz