

## Technical Page

Proposal Type: Regular  
 General Category: Astronomy  
 Sub-Category: Pulsars  
 Sub-Category: Pulsars  
 Observation Category:  
 Total Time Requested: 55 Hours

**Proposal Title:** OH emission-absorption study against pulsars

**ABSTRACT:**

This project has three goals: to measure the excitation temperature of the OH molecule in Galactic interstellar clouds, to measure the magnetic field strength in the molecular gas, and to search for secular variations in the optical depth of the clouds as the background source moves relative to the absorbing medium. For the first two, we hope for good results immediately. For the third we will need to return for a second epoch observation after about one year. In the second epoch study we can supplement with deeper observations in emission or in the circular polarization difference spectrum as needed to advance further the first goals.

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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**

not given