

### Technical Page

Proposal Type: Regular  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Galactic  
 Total Time Requested: 20 Hours

**Proposal Title:** OH MASER VARIABILITY, NARROW LINE FEATURES and SETI  
**ABSTRACT:**

We propose baseband recording in a 3-5 MHz band that includes mainline (1665,1667 MHz) maser transitions of several interstellar masers and one circumstellar maser. Dynamic spectra will be formed in software with varying frequency resolution as small as 1 Hz. The goals are to (1) confirm fast variability (minutes); (2) determine the minimum widths of line features; and (3) search for amplified artificial background signals.

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**Service Observing Request**

**Remote Observing Request**

- None
- All of the observing run.
- Part of the observing run.
- Queue Observing

- No
- Maybe
- Yes

**Instrument Setup**

L-band

**Atmospheric Observation Instruments:**

**Description of Observer Equipment:**

**Special Equipment or setup:** Special setup: Caltech baseband fast sampling system Software needs: proprietary software for spectral analysis Media needs: Quantum DLT

**RFI Considerations**

**Frequency Ranges Planned**

see proposal