

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Galactic
 Total Time Requested: 15 Hours

Proposal Title: OH masers for VLBI

ABSTRACT:

Observations of a sample of OH masers which are potential candidates for further high angular resolution studies with VLBI is proposed. The aim of this observations is to measure spectra in both main lines of OH 1665 and 1667 MHz, and in both senses of polarization. If possible, cross-polarization correlation is desirable in order to measure linear polarization. Linearly polarized spectral features are suitable for the self-calibration of both left- and right-polarization channels of VLBI receivers. The flux measurements of variable OH masers will help to select candidates for a VLBI proposal in networks with Arecibo participation, including VSOP observations. The VLBI observations will reveal masers with low interstellar scattering which will enable to study internal structure of the maser spots and the magnetic field.

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I might want to do remote observing.

Instrument Setup

L-narrow

Atmospheric Optical Instruments:

Special Equipment or setup: Simultaneous LCP and RCP observations. Autocorrelator with LCP, RCP, and cross-correlator LR and RL.

RFI Considerations

Frequency Ranges Planned

1665-1667.5