Technical Page

Proposal Type: Urgent
General Category: Astronomy
Sub-Category: Spectroscopy
Observation Category: Solar System
Total Time Requested: 20 Hours

Proposal Title: OH Spectroscopy of Comet 2001 A2 (LINEAR)

ABSTRACT:

Comet 2001 A2 (LINEAR) passes within .25 AU of the Earth in July, 2001. We propose to perform OH spectroscopy of the maser lines at 1612 MHz and 1665/1667 MHz in order to measure the gas production rate and constrain the degree of collisional quenching of the OH maser. These observations will be similar to those of Comet C/1999 S4 in the summer of 2000 and C/1999 T1 to be performed in late April 2001. Radar observations are also planned, and will be coordinated for maximum scientific return of the two projects.

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<tr>
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<tbody>
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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

1610-1615
1660-1670

This proposal requires Iridium RFI protection at 1612 MHz between 10pm and 6am EST.