Technical Page

Proposal Identification No.: A1587
Date Received: 2001-Oct-01 13:20:22

Proposal Type: Regular
General Category: Astronomy
   Observation Category: Galactic
   Total Time Requested: 24 Hours

Proposal Title: The OH Light-Curve of IRAS 22402+1045

ABSTRACT:
Existing observations of IRAS 22402+1045 provide a fragmentary OH light-curve. This suggests (i) its period decreases by 4.5% per decade; (ii) the intensity of its 1612 and 1667 MHz peaks at minimum light exhibit opposing secular trends in their intensities over three periods; (iii) the shape of the light curve from the weakest features differs markedly from that of the stronger. We are seeking here to obtain a complete light-curve over one pulsation cycle, both to confirm and/or clarify these findings, and to establish the light travel-time dimensions of the OH emission zone.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brian M Lewis</td>
<td>Arecibo Obs</td>
<td><a href="mailto:blewis@naic.edu">blewis@naic.edu</a></td>
<td>787 878 2612 ext 285</td>
<td>no</td>
</tr>
</tbody>
</table>

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

1600-1670