Technical Page

Proposal Type: Short
General Category: Astronomy
Sub-Category: Spectroscopy
Observation Category: Extragalactic
Total Time Requested: 2 Hours
Minimum Useful Time: 1 hr

Proposal Title: High-z Maser Follow-up Observation

ABSTRACT:

Reexamination of spectra from a large Arecibo survey for high-z water masers in radio galaxies has turned up a possible detection that we wish to confirm or deny. We request 2 hours to check if the signal in the original 1 hour observation is real. The importance of high-z water masers lies in their use as probes of AGN tori and black hole masses, and as potential cosmological tools for determination of the cosmological constant lambda via direct angular-size distance determination.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richard Barvainis</td>
<td>NSF</td>
<td><a href="mailto:rbarvai@nsf.gov">rbarvai@nsf.gov</a></td>
<td>703-292-4891</td>
<td>no</td>
</tr>
</tbody>
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Remote Observing Request

☑ Observer will travel to AO
☐ Remote Observing
☐ In Absentia (instructions to operator)

Instrument Setup

X-high

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned