

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 λ via direct angular-size distance determination.

Name	Institution	E-mail	Phone	Student
Richard Barvainis	NSF	rbarvai@nsf.gov	703-292-4891	no

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