

Technical Page

Proposal Type: Urgent
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Extragalactic
 Total Time Requested: 75 Hours
 Minimum Useful Time:

Proposal Title: An Arecibo survey of gravitationally lensed quasars for H₂O, NH₃, OH and HC₃N
ABSTRACT:

We are in the process of searching for and monitoring powerful water masers from distant gravitationally lensed quasars using the Arecibo telescope. However, by using all of the available boards on the WAPP, we can simultaneously search for other molecular lines e.g. NH₃, OH, HC₃N, from these distant quasars, while we carry out our search for water. We request permission to extend our already approved water programs to include the search for other molecules. This request will not require any change to the previously approved observational programs.

Name	Institution	E-mail	Phone	Student
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Remote Observing Request

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

Instrument Setup

C X-high C-high

Atmospheric Observation Instruments:

Special Equipment or setup: The C-high receiver is needed for part of this project

RFI Considerations

Frequency Ranges Planned

see proposal for rest frequencies.