

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Extragalactic
 Total Time Requested: 90 Hours

Proposal Title: Gas-rich Galaxies and Lyman-Alpha Quasar Absorbers

ABSTRACT:

We propose deep 21-cm spectral line observations along three lines of sight where quasar absorbers have been mapped in the redshift range $0.1 < z < 0.2$. The goal is to understand the spatial relation between the 15-18 expected HI galaxies with $M > 3 \times 10^8 M_{\text{solar}}$ and the 37 Lyman-alpha absorbers along the three sightlines. This experiment will test the cosmic environment of quasar absorbers that account for most of the baryons in the local universe.

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Service Observing Request

Remote Observing Request

None

No

All of the observing run.

Maybe

Part of the observing run.

Yes

Queue Observing

Instrument Setup

L-band

Atmospheric Observation Instruments:

Description of Observer Equipment:

Special Equipment or setup: Special setup: Software needs: Media needs:

RFI Considerations

Frequency Ranges Planned

see proposal