

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Extragalactic
 Total Time Requested: 30.33 Hours
 Minimum Useful Time: 2 hr

Proposal Title: EGN0G: Atomic and Molecular Gas in an Intermediate-Redshift Sample
ABSTRACT:

We seek 30 hours of Arecibo time at 21 cm to determine the HI content of 20 intermediate redshift ($z \sim 0.09 - 0.18$) galaxies detected in CO by CARMA. The combination of HI and H₂ gas masses will directly constrain the evolution of the gas reservoir of galaxies in this poorly-understood redshift range, as well as allow us to probe the question of how the mass of star-forming molecular gas is regulated in these systems. These data are needed to constrain models of gas accretion and star formation in the context of galaxy evolution.

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

L-wide

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

1190-1315

This proposal requires coordination with Punta Salinas radar within the band 1222-1381 MHz..