

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Extragalactic
 Total Time Requested: 33 Hours

Proposal Title: HI Content of Distant Galaxy Clusters

ABSTRACT:

As the redshift increases, it gets ever more difficult to detect the HI signal from individual galaxies, as their angular separation from companions decreases. This is a pilot study to evaluate the feasibility of observing rich clusters of galaxies instead. There is both diversity in the abundance of gas-rich galaxies in clusters, as well as an increase in the percentage of blue galaxies with redshift. We have chosen two clusters at $z=0.09$ and 0.18 to evaluate the problems and utility of this approach.

Name	Institution	E-mail	Phone	Student
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Service Observing Request

Remote Observing Request

- | | |
|---|--|
| <input checked="" type="checkbox"/> None
<input type="checkbox"/> All of the observing run.
<input type="checkbox"/> Part of the observing run.
<input type="checkbox"/> Queue Observing | <input checked="" type="checkbox"/> No
<input type="checkbox"/> Maybe
<input type="checkbox"/> Yes |
|---|--|

Instrument Setup

L-wide ALFA

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

1180 - 1225

and

1280 - 1325

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