

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Extragalactic
 Total Time Requested: 25.0 Hours
 Minimum Useful Time: 2.5h

Proposal Title: Detecting OH in dense gas-rich massive ETGs

ABSTRACT:

We propose to use Arecibo to investigate the presence of OH in the previously unstudied regime of dense gas-rich early-type galaxies, detected in HCN as part of the Atlas3D survey. We will focus primarily on searching for OH absorption features, which has been shown to be an excellent tracer of outflows, and might provide a key for investigating the quenching of star formation.

Name	Institution	E-mail	Phone	Student
Carl Heiles	UC - Berkeley	heiles@astro.berkeley.edu	510-280-8099	no

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