

## Technical Page

This proposal has not been submitted before.

Proposal Type: Director Discretionary Time  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Extragalactic  
 Total Time Requested: 6 Hours  
 Minimum Useful Time:

**Proposal Title:** Undergraduate Student Observations of Isolated Dwarf Galaxies

*ABSTRACT:*

We request L-band HI observations of isolated dwarf galaxies to be executed by undergraduate student observers as part of the Yale University course Astronomy 255 "Astrophysical Research Methods". This semester-long course is the foundation of the Yale Astronomy and Astrophysics major. The course goal is to prepare students for professional research, covering data reduction methods, astrostatistics and comparison to theoretical models. The class will study radio telescopes and observing techniques, and then travel to Arecibo during Fall break (Oct 22-24). Here we request 6 hours of L-band observations so that each student can observe a unique dwarf galaxy. Students will be responsible for data reduction and measuring the HI properties of their object. The results will be folded into a larger program to study to gas properties of low mass galaxies in isolated environments. Students will be involved in the full scientific process, from chosing targets to writing up their results.

Name	Institution	E-mail	Phone	Student
Marla Geha	Yale University	marla.geha@yale.edu	203-432-5796	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