

## Technical Page

Proposal Type: Regular  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Extragalactic  
 Total Time Requested: 11 Hours  
 Minimum Useful Time: 2 hours

**Proposal Title:** Redshift Survey of Extragalactic Sources from GLIMPSE and MIPS surveys in the Zone of Avoidance

*ABSTRACT:*

Marleau et al. 2008 demonstrated the feasibility of discovering galaxies in the ZOA using mid to far infrared data. We propose an HI redshift survey to observe a sample of 25 newly discovered extragalactic sources (Marleau et al. 2008). This sample of galaxies is located within 11d le Dec le 26d and RA 19h and are visible from Arecibo Observatory. Spectroscopic observations will allow a better understanding of the distribution of galaxies in the Sagitta-Aquila region and will provide a better determination of the uncertainties in the extinction corrections made to obtain the photometric redshifts. It will allow us to confirm the large scale structure distribution of galaxies found by Marleau et al. 2008. These HI observations would be the initial part of a long term project with undergraduate minority students of the University of Puerto Rico to search for galaxies in the infrared using IPAC archived data.

Name	Institution	E-mail	Phone	Student
Mayra E. Lebron	University of Puerto Rico, Rio Piedras Campus	mayra.lebron3@upr.edu	787-764-0620	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**

1307 - 1420

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

This proposal requires coordination with GPS L3 at 1381 MHz.