

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Extragalactic
 Total Time Requested: 25 Hours

Proposal Title: Extragalactic Radio Recombination Lines - A Pilot Project

ABSTRACT:

Radio Recombination Lines (RRL) from extragalactic sources provide a unique opportunity to study the kinematics and physical properties of the ionized gas in nearby spiral galaxies, starburst galaxies and even quasars. Here we propose a pilot project attempting the first C-band RRL detections toward five targets with distances ranging from 1 to 10 Mpc. The proposed observations will demonstrate whether a large search for extragalactic RRL emission is possible with the Arecibo telescope C-band system.

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Service Observing Request

- None
- All of the observing run.
- Part of the observing run.
- Queue Observing

Remote Observing Request

- No
- Maybe
- Yes

Instrument Setup

C-band

Atmospheric Observation Instruments:

Description of Observer Equipment:

Special Equipment or setup: Special setup: Software needs: Media needs:

RFI Considerations

Frequency Ranges Planned

see proposal