

Technical Page

This proposal has not been submitted before.

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Extragalactic
 Total Time Requested: 75 Hours
 Minimum Useful Time: 1hr

Proposal Title: First Systematic study on HI properties of nearby galaxies hosting intermediate-mass black holes

ABSTRACT:

We propose to obtain, systematically for the first time, HI observations for a new, homogeneous sample of Seyfert 1 galaxies hosting intermediate-mass black holes (IMBHs). Based on the proposed Arecibo observation and existing multiwavelength data, we will study the properties of the cold gas (HI mass, kinematics, etc.) of the host galaxies, possible correlations between cold gas properties and AGN parameters, and the (different) modes fueling the IMBHs in red spheroidal and blue disk galaxies, respectively.

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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

1290 - 1430

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

This proposal requires coordination with GPS L3 at 1381 MHz.