Section I - General Information

Submitted for Sep 1 2014.

This proposal has not been submitted before.

Proposal Type: Regular
General Category: Astronomy
Sub-Category: Spectroscopy
Observation Category: Extragalactic
Time Requested this semester: 75
Hours already used for this project:
Additional Hours required to complete project:
Minimum Useful Time: 1hr
Expected Data Storage: less than 100 GB

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.

Outreach Abstract:

<table>
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<tr>
<th>Name</th>
<th>Institution</th>
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<th>Student</th>
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This work is part of a PhD thesis.

Remote Observing Request

- Observer will travel to AO
- Remote Observing
- In Absentia (instructions to operator)

Section II - Time Request

The following times are in LST.
For these observations night-time is required.

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<th>Begin – End</th>
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Time Constraints (Must Be Justified in the Proposal Text)

Section III - Instruments Needed

L-wide

Atmospheric Observation Instruments:

Special Equipment or setup: none

Section IV - 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.

Section V - Observing List

Target List