Technical Page

Proposal Type: Regular
General Category: Astronomy
Sub-Category: Spectroscopy
Observation Category: Extragalactic
Total Time Requested: 60 Hours

Proposal Title: EXTENDED NEUTRAL HYDROGEN IN GALAXIES

ABSTRACT:

We intend to investigate the HI extensions present in some galaxies in order to understand the mechanisms that could produce them. We will test and improve a method to estimate which galaxies might have extensions, from the integrated HI profiles. We propose then to start observing the 21 cm line in the outer regions of a sample of 12 galaxies selected with this method. The beam size and sensitivity of the upgraded Arecibo telescope are obviously ideal for this research.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
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<tbody>
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</tbody>
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Service Observing Request

X  None
□  All of the observing run.
□  Part of the observing run.
□  Queue Observing

Remote Observing Request

X  No
□  Maybe
□  Yes

Instrument Setup

L-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