Technical Page

Proposal Type: Regular
General Category: Astronomy
Sub-Category: Spectroscopy
Observation Category: Extragalactic
Total Time Requested: 52 Hours

Proposal Title: HI detection in E+A galaxies

ABSTRACT:
At the moment, it is still not well understood how elliptical galaxies are formed. One of the possibilities is an unequal-mass merger of two spiral galaxies. The ensuing starburst depletes the total gas amount, effectively halting further star-formation. At the moment, E+A galaxies are the best candidates for post-starburst merger remnants turning into future elliptical galaxies. E+A galaxies are characterised optically by strong Balmer absorption lines, the absence of emission lines, and irregular morphologies. We propose to investigate their neutral gas content to help verify whether they are indeed early-type galaxies in the making.

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<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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Service Observing Request

- [X] None
- [ ] All of the observing run.
- [ ] Part of the observing run.
- [ ] Queue Observing

Remote Observing Request

- [ ] No
- [ ] Maybe
- [X] Yes

Instrument Setup

L-wide

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

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