

## Technical Page

Proposal Type: Regular  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Extragalactic  
 Total Time Requested: 74 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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**Service Observing Request**

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

**Remote Observing Request**

- No
- Maybe
- Yes

**Instrument Setup**

ALFA

**Atmospheric Observation Instruments:**

**Special Equipment or setup:** none

**RFI Considerations**

**Frequency Ranges Planned**

1315 - 1365

1309 - 1359

1305 - 1355

1303 - 1353

1296 - 1346

1285 - 1335

1275 - 1325

1270 - 1320

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