

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Extragalactic
 Total Time Requested: 90 Hours

Proposal Title: A Study of the Gas Phase of Radio Galaxies and Quasar Hosts at Low Redshifts
ABSTRACT:

We propose to take simultaneous HI and OH spectra for a sample of 26 Radio Galaxies, and Radio-loud, Radio-weak and Radio-quiet Quasars within the redshift range 0.06 – 0.11. The aim is to investigate the nature of the host galaxies of these AGNs as representatives of their respective classes and compare the results with the predictions of the unified scheme of AGNs. This study will also serve as a starting point for follow-up spectral-line synthesis imaging of the detected sources. The importance of tidal interaction and mergers in giving rise to radio emission and/or the AGN phenomenon can be inferred from such studies.

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Instrument Setup

L-wide

Atmospheric Optical Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

1282 - 1338

1503 - 1566

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