

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Continuum
 Observation Category:
 Total Time Requested: 19 Hours

Proposal Title: Absorption by the Tidal HI Filaments associated with NGC 4631

ABSTRACT:

We request 19 hours of the Arecibo Telescope to conduct measurements of absorption by HI tidal filaments in the nearby and interacting NGC 4631 galaxy group. These observations will contribute to a larger project focussed on understanding the dynamics (i.e. velocity, morphology and phase structure) of features such as those generated by tidal outflows and jet-driven plumes from a number of interacting systems. The NGC 4631 group is the perfect subject for these kind of studies; it being an edge-on, close and well-studied, HI-rich interacting system. It clearly exhibits many outflow filaments which are attributed to different energetic processes.

Name	Institution	E-mail	Phone	Student
Erik M Muller	Arecibo Observatory	emuller@naic.edu	787 878 2612 x 359	no

Service Observing Request

Remote Observing Request

- | | |
|---|--|
| <input checked="" type="checkbox"/> None
<input type="checkbox"/> All of the observing run.
<input type="checkbox"/> Part of the observing run.
<input type="checkbox"/> Queue Observing | <input checked="" type="checkbox"/> No
<input type="checkbox"/> Maybe
<input type="checkbox"/> Yes |
|---|--|

Instrument Setup

L-wide

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned