

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Extragalactic
 Total Time Requested: 49 Hours

Proposal Title: The Outer Edges of High Velocity Clouds W486 and W491

ABSTRACT:

A pilot study for the mapping of the HI edges of High Velocity Clouds at the resolution of the Arecibo 3' beam will be undertaken. The goal is to test in detail recent theory which predicts abrupt truncation of the neutral fraction of the hydrogen gas and to determine whether the edge is smooth or broken up into cloudlets. This will be done for two clouds: one that is compact, isolated and perhaps distant, and one that is more extended and probably more local.

Name	Institution	E-mail	Phone	Student
G. Lyle Hoffman	Lafayette College	hoffmang@lafayette.edu	610-330-5211	N

Service Observing Request

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

Remote Observing Request

- No
- Maybe
- Yes

Instrument Setup

L-band

Atmospheric Observation Instruments:

Description of Observer Equipment:

Special Equipment or setup: Special setup: Software needs: Media needs: Exabyte tape to transport data back to Lafayette

RFI Considerations

Frequency Ranges Planned

see proposal