

## Technical Page

Proposal Type:           Regular  
 General Category:       Astronomy  
 Sub-Category:           Spectroscopy  
   Observation Category: Galactic  
 Total Time Requested:  33 Hours

**Proposal Title:** ALFA HI Survey of the Galactic Plane at l=38 to 45 deg: Faint HI 21-cm Emission Line Wings at Forbidden Velocities

*ABSTRACT:*

We propose to observe galactic HI 21-cm emission line toward an area of about 70 square degrees in the galactic plane at l=38 to 45 deg. The scientific goal is to explore the nature of faint HI 21-cm emission line wings at forbidden velocities. These wings are believed to represent missing old supernova remnants, but their nature is currently unknown. The technical goal is to investigate the possibility of a commensal survey of the full Galactic plane accessible from Arecibo with the Zone of Avoidance survey using a basketweave observing technique. The other half of this commensal pair of proposals is submitted separately by Henning.

Name	Institution	E-mail	Phone	Student
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**Service Observing Request**

**Remote Observing Request**

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

**Instrument Setup**

ALFA

**Atmospheric Observation Instruments:**

**Special Equipment or setup:** none

**RFI Considerations**

## Frequency Ranges Planned

1325-1425