Technical Page

Proposal Type: Commensal
General Category: Astronomy
Sub-Category: Spectroscopy
Observation Category: Extragalactic
Total Time Requested: 33 Hours

Proposal Title: ALFA HI Survey of the Galactic Plane at l = 38 to 45 deg: Galaxies in the Zone of Avoidance

ABSTRACT:

We propose to observe extragalactic HI 21-cm emission with ALFA toward an area of about 70 square degrees around the Galactic plane at l = 38 to 45 degrees. The scientific goal is to understand the properties and distribution of HI galaxies in the Zone of Avoidance in this region. The region was selected to overlap with the northernmost portion of the Parkes HI Zone of Avoidance survey, so we know of 10 galaxies we should certainly recover, at improved resolution. We will be able to compare the ALFA performance with the Parkes results. The technical goal is to investigate the possibility of a commensal survey of the full Galactic plane accessible from Arecibo with a GALFA HI survey of Galactic hydrogen, using a basketweave observing technique. The other half of this commensal pair of proposals is submitted separately by Koo et al.

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<tr>
<th>Name</th>
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<tbody>
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Service Observing Request

[X] None

Remote Observing Request

[X] No

All of the observing run.

Maybe

Part of the observing run.

Yes

Queue Observing

Instrument Setup

ALFA

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations
Frequency Ranges Planned

1325 - 1425