

Technical Page

Proposal Type: Commensal
 General Category: Astronomy
 Sub-Category: Continuum
 Observation Category: Galactic
 Total Time Requested: 326.2 Hours
 Minimum Useful Time:

Proposal Title: GALFACTS Commensal Observing with I-GALFA

ABSTRACT:

The GALFACTS consortium proposes to observe commensally with the I-GALFA survey (A2186). The inner Galaxy is the most important region for GALFACTS galactic disk science. While they will not replace the GALFACTS coverage of this region, the commensal observations with I-GALFA will allow the GALFACTS consortium to advance major science objectives related to astrophysics of the magnetic field in the disk in a timely fashion. The polarimetric observations will also complement the I-GALFA HI images to allow study of the relationship between magnetic fields and the cold neutral ISM using these two Arecibo data sets. The GALFACTS data pipeline has been developed over the past two years using small pilot projects. With sufficient calibration observations in advance of the I-GALFA observations, we expect to be able to very rapidly turn the commensal observations into final scientific images for distribution to the GALFACTS consortium.

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Remote Observing Request

- Observer will travel to AO
- Remote Observing
- In Absentia (instructions to operator)

Instrument Setup

ALFA

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

1270 - 1570

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

This proposal requires coordination with GPS L3 at 1381 MHz.