

Technical Page

Proposal Type: Large
 General Category: Astronomy
 Sub-Category: Continuum
 Observation Category: Extragalactic
 Total Time Requested: 306 Hours
 Minimum Useful Time: 6.2

Proposal Title: Completion of GALFACTS Observations

ABSTRACT:

This proposal request time for the last 20% of observations to complete the GALFA Continuum Transit Survey (GALFACTS). GALFACTS, a spectro-polarimetric continuum survey of the whole Arecibo sky, provides the most sensitive imaging to date of polarized radiation over almost one third of the celestial sphere, while the high-spectra resolution, full-Stokes cubes enable Faraday rotation synthesis to be applied to both diffuse emission and a high-density grid of discrete compact sources. GALFACTS is a major observational advance in imaging the polarized radiation from both the Milky Way and the extragalactic universe for exploration of the origin and evolution of cosmic magnetism. It provides a rich new database for exploration of the magnetic field of the Galaxy, the properties of the magneto-ionic medium, the polarization properties of a vast number of extragalactic sources, and of intergalactic fields.

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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

1225 - 1525

This proposal requires Iridium RFI protection at 1612 MHz between 10pm and 6am EST.

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

This proposal requires coordination with GPS L3 at 1381 MHz.