

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: ALFA Precursor Shared Risk
 Total Time Requested: 100 Hours

Proposal Title: E-ALFA Precursor Proposal: Deep Imaging of NGC 2903

ABSTRACT:

We propose deep observations of NGC 2903 and its immediate environment using the new ALFA receiver in shared-risk mode. The scientific objectives are to a) search for an extended HI disk and where it may truncate, b) investigate the possible association of such a disk to Ly limit systems, c) measure the outer HI rotation curve, d) search for and put limits on possible CDM satellites, constrain the HI mass function and HVCs in the presence of a massive galaxy, and e) search for evidence of outflows or other links between an isolated galaxy and its environment. The technical objectives are to investigate modes of observing, data reduction and analysis that can best utilize the new receiver. The scientific justification outlines these objectives in more detail.

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Service Observing Request

Remote Observing Request

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

- No
- Maybe
- Yes

Instrument Setup

ALFA

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned