Proposal Identification No.: A1248
Date Received: 1999-Feb-1_09:26:08

Technical Page

Proposal Type: Regular
General Category: Astronomy
Sub-Category: Spectroscopy
Observation Category: Extragalactic
Total Time Requested: 84 Hours

Proposal Title: Deep HI imaging of compact HVCs: Local Group sub-dwarfs?

ABSTRACT:
We propose sensitive HI imaging of ten representative compact high-velocity clouds from the compilation by Braun and Burton (1999, AJ 341, 437). These objects are plausibly low-mass sub-dwarfs about 1 Mpc distant, with HI masses of a few \( \times 10^7 \) solar masses, and thus galactic building blocks in a pristine state. The N(HI) regime between \( 10^{18} \) and \( 10^{20} \) cm\(^{-2} \) is largely unexplored, but is near the threshold expected for star formation.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
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Service Observing Request

- [ ] None
- [X] All of the observing run.
- [ ] Part of the observing run.
- [ ] Queue Observing

Remote Observing Request

- [X] No
- [ ] Maybe
- [ ] Yes

Instrument Setup

- [ ] L-band

Atmospheric Observation Instruments:

Description of Observer Equipment:

Special Equipment or setup: Special setup: Software needs: Media needs:

RFI Considerations

Frequency Ranges Planned

see proposal