Proposal Identification No.: A2056  
Date Received: 2006-Feb-01 20:57:12

Technical Page

Proposal Type: Commensal  
General Category: Astronomy  
Sub-Category: Spectroscopy  
Observation Category: Galactic  
Total Time Requested: 64 Hours

Proposal Title: AN ALFA PROPOSAL: TESTING THE MODIFIED BASKETWEAVE TECHNIQUE (a commensal proposal with the ZOA group)

ABSTRACT:

This proposal has 2 technical and at least 4 scientific goals. Technically: (1) We want to develop the modified basketweave technique for Galactic observations with ALFA, necessary to complement the standard basketweave technique (used frequently for GALFA observations) for regions around Dec of 18 degrees. (2) We want to investigate and test strategies for commensal observing with the ZOA group, and also develop necessary software for the reduction of data obtained with WAPPs in the basketweave mode. Scientifically: (1) These observations will be used to study in detail an expanding shell, discovered in the SETHI survey. (2) We will be able to study at least several forbidden-velocity line wings. (3) We will continue mapping of the anti-center region (for which we have already obtained large maps with ALFA) – this will complement efforts by Putman et al. to study the disk/halo interface. (4) And, find new galaxies in the ZOA; please see the corresponding commensal proposal by Henning et al.

<table>
<thead>
<tr>
<th>Name</th>
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<th>Student</th>
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<tbody>
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Service Observing Request

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

Remote Observing Request

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

Instrument Setup

ALFA

Atmospheric Observation Instruments:
Special Equipment or setup:  none

RFI Considerations

Frequency Ranges Planned

1370-1470

This proposal requires coordination with Punta Salinas radar within the band 1222-1381 MHz.
This proposal requires coordination with GPS L3 at 1381 MHz.