Proposal Identification No.: A2221 Date Received: 2006-Feb-16_12:19:31

Technical Page

Proposal Type:	Regular
General Category:	Astronomy
Sub-Category:	Spectroscopy
Observation Category:	Galactic
Total Time Requested:	14 Hours

Proposal Title: HI Halo Clouds in the Outskirts of the Milky Way

ABSTRACT:

We propose to use ALFA and GALSPECT to map a region which is expected to be typical for a recently detected population of HI Halo Clouds in the outer parts of the Milky Way. These halo clouds have similar properties as those detected by Lockman (2002) in the inner part of the Galaxy. However, they are located at distances 13 <R <17 kpc and 3 <z <5 kpc and can neither be interpreted as high velocity clouds nor as clumps originating from a Galactic fountain. Our aim is to find more Halo clouds to provide a statistically meaningful sample for defining cloud properties, as well as to clarify a connection between clouds and more diffuse filamentary structures. This project is part of GALFA collaboration, and it also represents core data for the PhD thesis of Leonidas Dedes (to be completed in 2007).

Name	Institution	E-mail	Phone	Student
Leonidas Dedes	University of Bonn	ldedes@astro.uni-bonn.de	+49 (0)228 73 3668	G

Service Observing Request

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

Remot e Observing Request

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

Instrument Setup

ALFA

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned