

## Technical Page

Proposal Type: Regular  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Extragalactic  
 Total Time Requested: 100 Hours

**Proposal Title:** HI in Local Group dSph Galaxies and HVCs

*ABSTRACT:*

Our goal is to determine the relationship of HI to LG dwarf galaxies, and how that may relate to the problem of extragalactic HVCs. We plan to proceed as follows: 1) We will map the HI at high resolution in the vicinity of two new LG dwarf galaxy candidates that we have discovered, in order to learn how the HI is related to the optical galaxy in detail. 2) For several known LG dwarfs, we will also construct high-resolution maps. The galaxies we wish to observe are those for which Blitz and Robishaw (1999) have discovered new associations with atomic gas. 3) We will map the gas associated with several newly catalogued compact HVCs, which appear to have HI properties similar to the LG dwarfs.

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Leo Blitz	UC Berkeley	blitz@gmc.berkeley.edu	510 643 3000	no

### Instrument Setup

L-narrow

**Atmospheric Optical Instruments:**

**Special Equipment or setup:** none

### RFI Considerations

### Frequency Ranges Planned

1420