

## Technical Page

Proposal Type: Regular  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Extragalactic  
 Total Time Requested: 61.25 Hours

**Proposal Title:** KISS Dwarfs: The HI Properties of a Complete Sample of Active Star-Forming Dwarf Galaxies

**ABSTRACT:**

This proposal is a request for additional time to conclude HI observations for a new, ultra-deep sample of 108 active star-forming dwarf galaxies. Whereas previous HI studies of these objects have all employed heterogeneous samples, this study seeks to obtain HI fluxes and widths for a *complete*, uniformly catalogued sample of active dwarf galaxies. Specifically, the dwarfs we wish to observe are galaxies with  $M_B \geq -18$  and  $cz \leq 11,000 \text{ km s}^{-1}$  from the KPNO International Spectroscopic Survey (KISS). When combined with our optical observations, these data will allow for a more thorough understanding of the active dwarf galaxy phenomena.

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I do NOT want to do remote observing.

### Instrument Setup

L-narrow

### Atmospheric Optical Instruments:

**Special Equipment or setup:** none

### RFI Considerations

### Frequency Ranges Planned

1370 - 1432.5

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

This proposal requires coordination with GPS L3 at 1381 MHz.