

## Technical Page

Proposal Type: Regular  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Extragalactic  
 Total Time Requested: 82 Hours

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

*ABSTRACT:*

We propose to obtain HI observations for a new, ultra-deep sample of 111 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 dwarf s we wish to observe are galaxies with  $M_B \geq -18$  and  $cz \leq 11,000$  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.

Name	Institution	E-mail	Phone	Student
Janice C Lee	University of Arizona	jlee@as.arizona.edu	(520) 621-6535	G

### Instrument Setup

L-narrow

**Atmospheric Optical Instruments:**

**Special Equipment or setup:** none

**RFI Considerations**

**Frequency Ranges Planned**

1370-1432.5