

### Technical Page

Proposal Type: Regular  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Extragalactic  
 Total Time Requested: 117 Hours

**Proposal Title:** NEW LOW SURFACE BRIGHTNESS GALAXIES FROM THE CALTECH DIGITAL POSS

**ABSTRACT:**

As a preliminary phase for a much larger project, we wish to investigate the 21-cm detection probability of a sample of previously uncatalogued galaxies which have been automatically selected from three 5x5 degree fields of the Caltech Digital POSS (DPOSS). The redshift distribution and HI mass-to-luminosity ratios of the sample will guide the selection criteria for the larger catalog to be developed from all the fields.

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**Service Observing Request**

**Remote Observing Request**

- None
- All of the observing run.
- Part of the observing run.
- Queue Observing

- No
- Maybe
- Yes

**Instrument Setup**

L-band

**Atmospheric Observation Instruments:**

**Description of Observer Equipment:**

**Special Equipment or setup:** Special setup: Software needs: Media needs:

**RFI Considerations**

**Frequency Ranges Planned**

see proposal