

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Extragalactic
 Total Time Requested: 30 Hours

Proposal Title: Search for AGN Malin Galaxies

ABSTRACT:

This project is to obtain HI measurements of a newly discovered sample of massive, low surface brightness (LSB) galaxies. These galaxies represent new extremes in M_T/L , M_{HI}/L , the ratio of stars to gas, total size and dynamical mass. This new sample is generated using the fact that massive LSB disks frequently harbor low luminosity AGN's. By combining the detections in the 2MASS catalog with images from the DPOSS, we are able to extract a sample of LSB disks with central AGN's (by IR color) as candidates for an extensive sample of Malin-like disk galaxies. HI detections of this new sample will provide us with redshifts, HI masses and dynamical masses for a study of the characteristics of these extreme galaxies.

Name	Institution	E-mail	Phone	Student
James Schombert	University of Oregon	js@abyss.uoregon.edu	(541) 346-5214	no

I NA want to do remote observing.

Instrument Setup

L-narrow

Atmospheric Optical Instruments:

Special Equipment or setup: none

RFI Considerations**Frequency Ranges Planned**

1240

1420

This proposal requires coordination with GPS L3 at 1381 MHz.