

## Technical Page

Proposal Type: Regular  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Extragalactic  
 Total Time Requested: 39 Hours

**Proposal Title:** EVOLUTIONARY TRACKS OF ACTIVE SPIRAL GALAXIES

**ABSTRACT:**

Recent work has shown that the disks of Seyfert host galaxies follow trends of HI mass fraction, surface brightness, and M/L ratio similar to, but offset from, those in normal spirals. We propose new HI observations of 62 active and normal spiral galaxies to investigate: 1) the neutral gas abundance in Seyferts and starbursts; 2) trends of HI mass fraction in Seyferts and starbursts with M/L and disk surface brightness; 3) differences among active and normal spirals. Such a study can assess the validity of disk evolution in spirals and help understand how galaxies form, and how active and normal spirals evolve.

Name	Institution	E-mail	Phone	Student
Leslie K. Hunt	CAISMI-CNR	hunt@arcetri.astro.it	+39-55-2752296	N

**Service Observing Request**

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

**Remote Observing Request**

- 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