

## Technical Page

Proposal Type: Short  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Extragalactic  
 Total Time Requested: 3 Hours

**Proposal Title:** Starburst and Post-Starburst Galaxies in the Pegasus Cluster

**ABSTRACT:**

We have found a surprisingly high fraction of post-starburst (PSB) and starburst (SB) galaxies in 5 nearby rich clusters of galaxies. This activity is similar in nature to the Butcher-Oemler (B-O) effect, but the clusters are 10 times nearer. This proximity provides a unique opportunity to solve the main questions about the origin of the B-O effect. We propose to determine the HI spectrum of 4 SB and PSB galaxies in the Pegasus cluster.

Name	Institution	E-mail	Phone	Student
Alejandro E Gaba	University of North Carolina	gaba@physics.unc.edu	919-962-1052	G

**Service Observing Request**

**Remote Observing Request**

- |  |  |
|--|--|
| <input type="checkbox"/> None<br><input type="checkbox"/> All of the observing run.<br><input type="checkbox"/> Part of the observing run.<br><input type="checkbox"/> Queue Observing | <input checked="" type="checkbox"/> No<br><input type="checkbox"/> Maybe<br><input type="checkbox"/> Yes |
|--|--|

**Instrument Setup**

L-band

**Atmospheric Observation Instruments:**

**Description of Observer Equipment:**

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

**RFI Considerations**

**Frequency Ranges Planned**

see proposal