

## Technical Page

Proposal Type: Urgent  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Solar System  
 Total Time Requested: 30 Hours

**Proposal Title:** Additional Time on Comet LINEAR 2003 K4: Testing ALFA at OH Frequencies  
**ABSTRACT:**

ALFA detection of 18-cm OH lines presents new science opportunities. A bright comet is available as an extended OH line source, 25 mJy predicted flux in late July and early August 2004. We propose to extend our existing time request of 4 days under project A1851, by 30 additional hours to use ALFA in OH mode, and do additional testing while in the OH configuration. Since changing modes is time-consuming, extended testing now would be the most efficient way to determine the ALFA capabilities so that appropriate proposals can be made when ALFA is generally available. The results of these observations will be available immediately to the scientific community.

Name	Institution	E-mail	Phone	Student
Ellen S Howell	Arecibo Observatory	ehowell@naic.edu	787-878-2612 x282	no

### 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-wide                      ALFA

### Atmospheric Observation Instruments:

**Special Equipment or setup:** We are testing ALFA at OH frequencies, and need for the OH filters to be on ALFA during the times scheduled.

### RFI Considerations

## Frequency Ranges Planned

1610,1665,1667,1720