

## Technical Page

Proposal Type:                 Urgent  
 General Category:            Planetary Radar  
     Observation Category:   Solar System  
 Total Time Requested:      16 hrs Hours  
 Minimum Useful Time:      4 hours

**Proposal Title:**   Arecibo Radar Observations of 189P/NEAT in July, 2012

*ABSTRACT:*

We propose radar observations of comet 189P/NEAT in July, 2012. This comet will come within 0.18 AU of the Earth between 15-23 July, offering a rare opportunity to study a comet nucleus and coma. The nucleus is likely to be several hundred meters in diameter, which makes a detection with radar likely. We request 4 days for radar detection and possible imaging of the nucleus. If the comet is not detected after the first day, the time will be released for re-scheduling.

Name	Institution	E-mail	Phone	Student
Ellen Howell	Arecibo Observatory	ehowell@naic.edu		no

### Remote Observing Request

- Observer will travel to AO
- Remote Observing
- In Absentia (instructions to operator)

**Instrument Setup**

S-Band radar                                 S-band receiver

**Atmospheric Observation Instruments:**

**Special Equipment or setup:**   none

**RFI Considerations**

**Frequency Ranges Planned**

2380 MHz