

## Technical Page

This proposal has not been submitted before.

Proposal Type: Urgent  
 General Category: Planetary Radar  
 Observation Category: Solar System  
 Total Time Requested: 2 Hours  
 Minimum Useful Time: 2

**Proposal Title:** Radar Astrometry of potential impactor 2013 XY8

*ABSTRACT:*

Even after Goldstone radar astrometry, near-Earth asteroid 2013 XY8 remains a potential Earth impactor in 2095. Radar astrometry on 2013 December 13 should improve the orbital uncertainty by a factor of several, hopefully demonstrating that the object will not impact the Earth. We request the window from 5:45 to 8 AM AST on 2013 December 13 to observe this asteroid. This is the best window to constrain the orbit.

| Name           | Institution   | E-mail                 | Phone | Student |
|----------------|---------------|------------------------|-------|---------|
| Jon D Giorgini | JPL / Caltech | jdg@tycho.jpl.nasa.gov |       | 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

2370-2390 MHz