

### Technical Page

Proposal Type: Urgent  
 General Category: Planetary Radar  
 Sub-Category: Radar  
 Observation Category: Asteroids  
 Total Time Requested: 14 Hours  
 Minimum Useful Time: 2 hours

**Proposal Title:** Urgent Proposal for S-band Radar Imaging of Near-Earth Asteroid 2008 QS11  
**ABSTRACT:**

This is an urgent proposal requesting observing time (October 1-4, 2008) for the newly discovered potentially hazardous asteroid (PHA) 2008 QS11. The single-run SNR rates for 2008 QS11 are exceptionally good and the observing conditions for close approach of 2008 QS11 can be compared to those of 1992 Toutatis experiment. The radar data would greatly improve the orbital uncertainties and they would help predict the future close encounters with Earth. We hope to achieve adequate rotation-phase coverage that will allow shape modeling of this object as well as estimation of its main physical properties.

Name	Institution	E-mail	Phone	Student
Marina Brozovic	JPL/California Institute of Technology	marina.brozovic@jpl.nasa.gov	818-354-5197	no

### Remote Observing Request

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

### Instrument Setup

S-Band radar

### Atmospheric Observation Instruments:

**Special Equipment or setup:** none

### RFI Considerations

## Frequency Ranges Planned