

## Technical Page

Proposal Type: Regular  
 General Category: Planetary Radar  
 Observation Category: Solar System  
 Total Time Requested: 30 Hours  
 Minimum Useful Time: 2 hours/day

**Proposal Title:** Radar Imaging of Near-Earth Asteroid (53319) 1999 JM8 in 2008

*ABSTRACT:*

We propose delay-Doppler radar imaging of 7-km-diameter potentially hazardous asteroid 1999 JM8 during May and June of 2008. We will utilize the eight year baseline and considerable sky motion between the 2008 images and images obtained in 1999 to estimate the asteroid's 3-D shape and its unusually slow non-principal axis rotation state, the origins of which are poorly understood.

Name	Institution	E-mail	Phone	Student
Lance A. M. Benner	Jet Propulsion Laboratory	lance@reason.jpl.nasa.gov	818-354-7412	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**