Technical Page

This proposal has not been submitted before.

Proposal Type: Urgent
General Category: Planetary Radar
Observation Category: Solar System
Total Time Requested: 7.5 Hours
Minimum Useful Time: 3 h

Proposal Title: Urgent Proposal for Radar Observations of Near-Earth Asteroid 2009 FD in March of 2014

ABSTRACT:
We propose radar observations of recently re-discovered near-Earth asteroid 2009 FD to refine its orbit and characterize its physical properties. This object has a small chance of impacting Earth in 2190 that Arecibo radar astrometry could eliminate with an improved orbit.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-mail</th>
<th>Phone</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lance A. M. Benner</td>
<td>Jet Propulsion Laboratory</td>
<td><a href="mailto:lance.benner@jpl.nasa.gov">lance.benner@jpl.nasa.gov</a></td>
<td>818-354-7412</td>
<td>no</td>
</tr>
</tbody>
</table>

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