Technical Page

Proposal Type: Urgent
General Category: Planetary Radar
Observation Category: Solar System
Total Time Requested: 25 Hours
Minimum Useful Time:


ABSTRACT:

We propose delay-Doppler radar imaging, physical modeling, satellite searches, and orbit refinement of near-Earth asteroid 2008 BT18 during its very close approach within 0.015 AU (6 lunar distances), when it will be an extremely strong imaging target. With an absolute magnitude $H = 18.3$, 2008 BT18 is probably within a factor of two of 700 meters in diameter, so 7.5-m delay-Doppler images could place thousands of pixels on the object and reveal considerable surface detail.

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<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>
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Remote Observing Request

- [X] 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