This proposal has not been submitted before.

Proposal Type: Urgent
General Category: Planetary Radar
Observation Category: Solar System
Total Time Requested: 2.25 Hours
Minimum Useful Time: 1.0

Proposal Title: Radar Observations of Small Near-Earth Asteroids 2016 UB107 and 2016 VZ

ABSTRACT:
Recently discovered near-Earth asteroids 2016 UB107 and 2016 VZ are of interest to NASA as possible future robotic or human mission targets. Little is known about these objects other than their absolute magnitudes of >25, suggesting diameters within a factor of two of 30 meters. We request 2.25 hours of telescope time on November 15 prior to the regularly scheduled R3035 track, 11:30-13:45 AST, to collect valuable velocity and range astrometry for these small bodies and to characterize them as the signal strength allows.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
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<th>Phone</th>
<th>Student</th>
</tr>
</thead>
<tbody>
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</tr>
</tbody>
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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
- S-band receiver

Atmospheric Observation Instruments:

| Special Equipment or setup: none | RFI Considerations | Frequency Ranges Planned |