This proposal has not been submitted before.

Proposal Type: Regular
General Category: Planetary Radar
Observation Category: Solar System
Total Time Requested: 144 Hours
Minimum Useful Time: 2.0

Proposal Title: Arecibo Radar Observations of 17 High-Priority Near-Earth Asteroids During CY2015

ABSTRACT:
We request 60 sessions over calendar year 2015 totaling 288 hours of telescope time (observing + transmitter-warmup time) to observe our 17 highest-priority near-Earth asteroids. Only one of these has been previously resolved in radar images. The other 16 objects provide an important discovery space as they are currently poorly characterized. Our goals include detailed physical characterization including constraining size, shape, spin state, surface properties, near-surface roughness, and reflectivity, as well as determination of binarity or multiplicity, orbital refinement, and three-dimensional shape modeling when possible.

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<thead>
<tr>
<th>Name</th>
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<th>Student</th>
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<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