Technical Page

Proposal Type: Regular
General Category: Planetary Radar
Observation Category: Solar System
Total Time Requested: 48 Hours
Minimum Useful Time: 4 hours

Proposal Title: Systematic Radar Observations of Small Near-Earth Asteroids

ABSTRACT:

We propose a systematic radar survey of all available NEAs in an 8-hour observing run one night each month. Objects are available at any given time, but newly discovered objects will be more plentiful near the time of new moon. We expect to observe about 8-10 objects each month to measure orbit distance and velocity, object size, spin rate, polarization ratio and radar reflectance properties. These characteristics will give new insights about smaller NEAs than previously sampled.

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<thead>
<tr>
<th>Name</th>
<th>Institution</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

2380