Technical Page

Proposal Type: Regular
General Category: Planetary Radar
Observation Category: Solar System
Total Time Requested: 96 Hours
Minimum Useful Time: 4 hours

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

ABSTRACT:
We propose a systematic radar survey of NEAs, now that observable objects are available at any given time, any day of the month. During 8-hour observing session each month we can observe about 10 NEAs and measure distance, velocity, size, apparent rotation rate, polarization ratio, radar albedo and cross-section. These characteristics will give new insights about smaller NEAs than previously sampled.

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
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<th>Phone</th>
<th>Student</th>
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</thead>
<tbody>
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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

2380 MHz