Technical Page

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

Proposal Title: Radar Observations of Main-Belt Asteroids 1 Ė̄ceres, 4 Ė̄vesta, and 163 Ė̄rigone

ABSTRACT:
Spatially-resolved radar observations of these three main-belt asteroids will constrain their surface properties and collisional histories. These observations should resolve some of the long standing ambiguities in composition and structure that relate asteroids to meteorites and to the formation of the Solar System.

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<tr>
<th>Name</th>
<th>Institution</th>
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<th>Student</th>
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<tbody>
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Service Observing Request

☐ X None
☐ X All of the observing run.
☐ ☐ Part of the observing run.
☐ ☐ Queue Observing

Remote Observing Request

☐ X No
☐ ☐ Maybe
☐ ☐ Yes

Instrument Setup

S-band radar

Atmospheric Observation Instruments:

Description of Observer Equipment:

Special Equipment or setup: Special setup: Radar Interface, S-Band transmitter, Radar decoder and Mark-IV pulsar machine would be helpful. Software needs: CW software, similar to "Nurad", phase-coding software similar to "MAIN". Media needs:

RFI Considerations

Frequency Ranges Planned

see proposal