

Technical Page

This proposal has not been submitted before.

Proposal Type: Urgent
 General Category: Planetary Radar
 Observation Category: Solar System
 Total Time Requested: 11.5 Hours
 Minimum Useful Time: 2.5

Proposal Title: Observations of Main-belt asteroids 2035 Stearns and 246 Asporina
ABSTRACT:

We wish to observe asteroids 2035 Stearns and 246 Asporina. 2035 Stearns is the last (of 4) main-belt E-class asteroids that can be detected at Arecibo. E-class are notable for having near-unity polarization ratios, a feature not seen in other asteroid class. 246 Asporina would be the first A-class asteroid detected by radar. A-class are thought to be olivine rich and may be analogous to pallasite meteorites (iron/nickel + olivine). If so, our observations should be able to confirm this by measuring radar albedo.

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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