

Technical Page

Proposal Type: Regular
 General Category: Planetary Radar
 Observation Category: Solar System
 Total Time Requested: 238 Hours
 Minimum Useful Time:

Proposal Title: Arecibo Radar Observations of 21 Near-Earth Asteroids During February-August 2012

ABSTRACT:

We request 75 sessions (163 hours observing + 75 hours setup = 238 hours total) to observe 21 Near-Earth Asteroids, 8 of which are likely larger than a kilometer, 7 of which offer opportunities for shape modeling at high signal-to-noise ratio (>1000/day), a few of which may be binaries, and several of which may reveal non-gravitational perturbations such as the Yarkovsky effect. Not much is known about the majority of the objects in this sample. Our goals include detailed physical characterization, determination of binarity or multiplicity, orbital refinement, and shape modeling when possible.

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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:

Description of Observer Equipment: Portable Fast Sampler

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned

2380