Technical Page

Proposal Type:	Regular
General Category:	Planetary Radar
Observation Category:	Solar System
Total Time Requested:	118 Hours
Minimum Useful Time:	2 Hours

Proposal Title: Arecibo Radar Imaging of Nine Near-Earth Asteroids During September 2010-February 2011

ABSTRACT:

We plan to observe nine near-Earth asteroids with the Arecibo S-band planetary radar system to continue our very successful program of characterizing the near-Earth asteroid population. Our goals include detailed physical characterization, determination of binarity or multiplicity, orbital refinement, and shape modeling depending on the quality of the data obtained. A better understanding of the near-Earth asteroid population is necessary to assess impact hazards with Earth and constraining models of the formation and evolution of the solar system.

Name	Institution	E-mail	Phone	Student
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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