Technical Page

Proposal Type:	Regular
General Category:	Planetary Radar
Observation Category:	Solar System
Total Time Requested:	25 Hours
Minimum Useful Time:	2.5 hrs

Proposal Title: Radar Investigation of Three X/M-class Asteroids

ABSTRACT:

We propose to observe three X/M-class asteroids with the S-band radar. Because they are purportedly metal-rich, radar is the best tool with which to test this compositional hypothesis. These observations offer the best opportunity for a decade to observe 110 Lydia and 779 Nina, and the only opportunity to detect 359 Georgia for several decades. Our observations will help us understand the origin of metal-asteroids in the main-asteroid belt and add to our understanding of the early solar system's formation and subsequent evolution.

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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