Proposal Identification No.: R3170 Date Received: 2017-Feb-17_17:42:58

Technical Page

This proposal has not been submitted before.

Proposal Type:	Urgent
General Category:	Planetary Radar
Observation Category:	Solar System
Total Time Requested:	3.75 Hours
Minimum Useful Time:	1.0

Proposal Title: Radar Observations of Small Near-Earth Asteroids 2017 BM123, 2017 CF32, and 2017 CP1

ABSTRACT:

We request 3.75 hours of telescope time to observe three small near-Earth asteroids: 2017 BM123, 2017 CF32, and 2017 CP1. Little is known about these asteroids except their absolute magnitudes, which suggest diameters roughly between 20 and 60 meters. All three of these asteroids are NHATS-compliant and, as such, are of interest to NASA as possible future spacecraft mission targets. For each asteroid, we will collect valuable radar astrometry to improve our knowledge of their future trajectories and impact hazard to Earth and will characterize their scattering properties, spins, sizes, and shapes as signal strength allows.

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