

Technical Page

Proposal Type: Urgent
 General Category: Planetary Radar
 Observation Category: Solar System
 Total Time Requested: 7.5 Hours

Proposal Title: Radar observations of long-lost asteroid 1937 UB (Hermes)

ABSTRACT:

We propose to observe asteroid 1937 UB (Hermes), a large (1-2 km) object of considerable historical and dynamical interest. Hermes was recovered today after eluding astronomers for 66 years since its 1937 discovery. Arecibo observations during the current October apparition will refine the orbit and may elucidate a peculiar dynamical connection with another large near-Earth object. The radar data will also provide an important physical characterization of this potentially hazardous asteroid. Three blocks of 2.5 hours each are requested.

Name	Institution	E-mail	Phone	Student
Jean-Luc Margot		margot@gps.caltech.edu		no

Service Observing Request

Remote Observing Request

- | | |
|---|---|
| <input type="checkbox"/> None | <input type="checkbox"/> No |
| <input checked="" type="checkbox"/> All of the observing run. | <input type="checkbox"/> Maybe |
| <input type="checkbox"/> Part of the observing run. | <input checked="" type="checkbox"/> Yes |
| <input type="checkbox"/> Queue Observing | |

Instrument Setup

S-Band radar S-band receiver

Atmospheric Observation Instruments:

Special Equipment or setup: PFS

RFI Considerations

Frequency Ranges Planned