Technical Page

This proposal has not been submitted before.

Proposal Title: Radar Observations of Near-Earth Asteroid 2018 AJ

ABSTRACT:

We request 2.5 hours of telescope time (including transmitter warm up) on January 22, 00:00-02:30 AST to observe near-Earth asteroid 2018 AJ, which is designated as an NHATS object of interest to NASA. Very little is known about 2018 AJ other than its absolute magnitude of 24.8, which suggests a diameter within a factor of two of 30 meters. The expected signal strength will allow for precise astrometry and estimation of the rotation rate, size, and surface properties. We will require ALFA to be covered at 00:00 AST during transmitter warm-up time and will stop at 02:30 AST to avoid interrupting scheduled VLBI observations.

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<tbody>
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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