

Session Program

May 5 – 9, 2025

9th IAA PLANETARY DEFENSE CONFERENCE 2025

Session 3: Apophis T-4 Years

STELLENBOSCH, CAPE TOWN, SOUTH AFRICA
Protea Hotel by Marriott® Stellenbosch

Tue, May 6

4:05 PM

Session 3: Apophis T-4 Years: Session 3: Apophis T-4 Years

Session | Location: STELLENBOSCH, CAPE TOWN, SOUTH AFRICA, Protea Hotel by Marriott® Stellenbosch

4:05 – 4:13 PM

3D shape model and spin state of 99942 Apophis estimated from 2013 radar and lightcurve data

Speaker

Marina Brozovic

4:13 – 4:21 PM

Spin state of Apophis - predicting its orientation during and after the 2029 flyby

Speaker

Josef Durech

4:21 – 4:29 PM

Modeling Apophis as a Bi-Lobate Rubble Pile Body using Contact Dynamics

Speaker

Daniel Scheeres

4:29 – 4:37 PM

The Effect of Irregular Constituent Particle Shape and Internal Structure on the Anticipated Physical Outcomes of the Apophis 2029 Close Encounter

Speaker

Joseph DeMartini

4:37 – 4:45 PM

Estimating the effect of Apophis' close approach on Earth's satellites.

Speaker

Dr Marta Ceccaroni

4:45 – 4:53 PM

Near-Future Plans for IAWN Apophis Observing Campaigns

Speaker

Vishnu Reddy

4:53 – 5:01 PM

Rapid Apophis Characterization with Two Satellites (RA's CATS): Residual Mission Benefit for NEO Tracking and Characterization

Speaker

Nathan Golovich

5:01 – 5:09 PM

LEVERAGING CISLUNAR ORBITS FOR THE UPCOMING APOPHIS ENCOUNTER

Speakers

Amanda Haapala-Chalk, Fazle Siddique, Jackson Shannon, Juan Ojeda Romero

5:09 – 5:17 PM

The Caltech Mission to Characterize Apophis

Speaker

Carol Raymond

5:17 – 5:25 PM

Apophis 2029: Advancing Planetary Science and Planetary Defense with the Caltech Mission

Speaker
Adriana Daca

5:25 – 5:33 PM

TERP RAPTOR (Terrapin Engineered Rideshare Probe for Rapid-response Asteroid Apophis Profiling, Tracking, Observing, and Reconnaissance): Mission Concept Development

Speaker
Adrienne Rudolph

5:33 – 5:41 PM

Low energy multi-impact experiments on (99942) Apophis

Speaker
Shogo Tachibana

5:41 – 5:49 PM

APOPHIS KINETIC IMPACT TEST AND CRATERING EXPERIMENT AFTER ITS CLOSE APPROACH TO THE EARTH

Speaker
Kevin Walsh

5:49 – 6:19 PM

Q&A / Discussion

6:19 PM