

Session Program

May 5 – 9, 2025

9th IAA PLANETARY DEFENSE CONFERENCE 2025

Session 7: Space Mission & Campaign Design

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

Thu, May 8

11:05 AM

Session 7: Space Mission & Campaign Design: Session 7: Space Mission & Campaign Design

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

11:05 - 11:13 AM **A 2025 Update to the Asteroid Mitigation Response Plot**

Speaker

Paul Chodas

11:13 - 11:21 AM

DEVELOPING A ROBUST FLYBY RECONNAISSANCE CAPABILITY FOR PLANETARY DEFENSE

Speaker

Nancy Chabot

11:21 - 11:29 AM

DESIGN CONSTRAINTS FOR ASTEROID DEFLECTION CAMPAIGNS BASED ON DELTA-V ESTIMATION TIMELINES

Speaker

Rahil Makadia

11:29 - 11:37 AM

LOOK BEFORE YOU LEAP: APPROACHES FOR RAPID RESPONSE RECONNAISSANCE OF NEOS

Speaker

Benjamin Donitz

11:37 - 11:45 AM

TREx: A Temporarily-Captured Orbiter Rendezvous Explorer & In-Situ Characterization Mission

Speaker

Adrienne Rudolph

11:45 - 11:53 AM

The ANIME mission concept: exploring three near-Earth asteroids with a CubeSat

Speaker

Davide Perna

11:53 AM - 12:01 PM

Novel Reutilization of the European Service Module in Service of Planetary Defense

Speaker

Lorraine Fesq

12:01 - 12:09 PM

Grabbing a sample from a real Near-Earth Asteroid (NEA): A very fast Sample Return Mission opportunity

Speaker

Martin Hilchenbach

12:09 - 12:17 PM

Apophis Pathfinder: An Innovative Milo Space Science Institute Smallsat Mission for Initial Planetary Defense and Scientific Characterization of PHA (99942) Apophis

Speaker

Prof. Jim Bell

12:17 - 12:25 PM

Trajectory and CubeSat Mission Design for Plasma Physics Observations during the 2029 Apophis Flyby

Speaker

Lucas Barbero Sanchez

12:25 - 12:33 PM

Ion-Beam Deflection Missions for the 2024 PDC25 Scenario

Speaker

Paul Chodas

12:33 - 12:45 PM

Q&A / Discussion

12:45 PM