ATD3 Workshop 2024

Thursday, 6 June 2024

Modelling, Simulation and Tools: Destructive Re-entry Tools - Newton (10:20 - 11:40)

   -Conveners: Julien Annaloro

time	[id] title	presenter
10:20	[15] Development of an Enhanced Spacecraft Fragmentation Code	Dr BARISELLI, Federico
10:40	[37] PAMPERO High Fidelity	CONSTANT, Eddy MIDANI, Iko SPEL, MARTIN Mr VAN HAUWAERT, Pierre
11:00	[16] Re-entry Track of the Shape Effects study - Final Presentation	Mr LIPS, Tobias

Modelling, Simulation and Tools: Destructive Re-entry Tools - Newton (12:10 - 13:10)

   -Conveners: Stephane Galera

time	[id] title	presenter
12:10	[27] Extending a GPU Optimised CFD Code to Demise Applications	Dr GLOTH, Oliver
12:30	[20] Deep-learning Neural Networks for predicting aerothermodynamic loads during atmospheric re-entry	GRAHAM, Julie
12:50	[22] Multifidelity-based Monte Carlo methods applied to the uncertainty quantification of a re-entry test case	WILLIAMSON, Tommy

Modelling, Simulation and Tools: Destructive Re-entry Tools - Newton (14:25 - 14:45)

time	[id] title	presenter
14:25	[34] Extension of DRAMA via Post-Processing Tools	FLINTON, Alan

Modelling, Simulation and Tools: Fragmentation, Ablation Phenomena - Newton (14:45 - 15:45)

   -Conveners: Cristina De Persis

time	[id] title	presenter
14:45	[8] Dynamic fragmentation using phase-field modelling of fracture	DURUSSEL, Shad
15:05	[35] Coupling aerothermodynamic and material response modelling for detection of destructive re-entries	GARBACZ, Catarina
15:25	[24] Effect of Ablation on Laminar-Turbulent Transition over a Compression Ramp at Mach 8	BASKAYA, Ata

Modelling, Simulation and Tools: Fragmentation, Ablation phenomena - Newton (16:15 - 16:35)

time	[id] title	presenter
16:15	[13] Modeling, numerical strategies and simulations of ablation by melting for critical space debris materials	Dr HENNEAUX, David

Friday, 7 June 2024

<u>Modelling, Simulation and Tools</u> - Newton (10:55 - 11:15)

time	[id] title	presenter
10:55	[5] Drag and O-atom Exposure Modeling for Satellites in Very Low Earth Orbit	Prof. SCHWARTZENTRUBER, Tom

<u>Modelling, Simulation and Tools</u> - Newton (15:15 - 15:35)

time	[id] title	presenter
15:15	[11] Passive devices for safe deorbiting and reentry of spent upper stages - REMOTE	Dr SIZOV, Dmitry