

10th International Workshop on Radiation of High Temperature Gases for Space Missions

Monday, September 9, 2024

Radiation modeling and simulation - Oxford e-Research Centre (9:25 AM - 9:50 AM)

time	[id] title	presenter
9:25 AM	[185] Thermochemical Characterisation of Shock Heated Flows	GLENN, Alex MCGILVRAY, Matthew

Radiation modeling and simulation - Oxford e-Research Centre (2:00 PM - 3:40 PM)

time	[id] title	presenter
2:00 PM	[163] Sensor-based Radiation Signature Computations in Hypersonic Flow using a Reverse Photon Monte Carlo Method	Prof. MUNDT, Christian
2:25 PM	[159] Kinetic Modeling and Impact of Methane on Radiative Heating for Ice and Gas Giant Entry	CARROLL, Alex
2:50 PM	[162] Aerothermodynamic, material response and radiation modelling for the detection of demising spacecraft during re-entry	GARBACZ, Catarina
3:15 PM	[183] A reinvestigation of the C\$ ₂ \$ Deslandres-d'Azambuja radiative system	LINO DA SILVA, Mario

Tuesday, September 10, 2024

Radiation modeling and simulation - Oxford e-Research Centre (11:10 AM - 12:30 PM)

time	[id] title	presenter
11:10 AM	[182] Radiative Heating for Ice Giant Entries	LINO DA SILVA, Mario
11:40 AM	[137] Characterization of high temperature N ₂ /CH ₄ emission	MERHABEN, Cyrine
12:05 PM	[170] Through-Model Fibre Optic Emission Spectroscopy for Studying Planetary Entry Radiative Heat Flux	JAMES, Chris

Radiation modeling and simulation - Oxford e-Research Centre (1:55 PM - 2:50 PM)

time	[id] title	presenter
2:00 PM	[189] Electron Number Density Estimation for High-Speed Mars Entry Condition	LIU, Yu
2:25 PM	[176] Calibration of Rate Parameters Against Shock Tube Emission Spectroscopy	HANSSON, Kaelan

Radiation modeling and simulation - Oxford e-Research Centre (4:05 PM - 4:30 PM)

time	[id] title	presenter
4:05 PM	[179] Shock Curvature Effects in Shock Tube Data	CLARKE, Justin

Wednesday, September 11, 2024

Radiation modeling and simulation - Oxford e-Research Centre (11:50 AM - 12:40 PM)

time	[id] title	presenter
11:50 AM	[177] Investigation of Shock Speed Variation Effects on Expanding Flow Experiments in the NASA Electric Arc Shock Tube	GANGA, Kanishk

Thursday, September 12, 2024

Radiation modeling and simulation: Missions - Oxford e-Research Centre (2:00 PM - 3:15 PM)

time	[id] title	presenter
2:00 PM	[178] Electron Number Density Measurement in the T6 Stalker Tunnel utilising Langmuir Probes	NICK, Nathalie
2:25 PM	[145] MITIGATING DRAGONFLY TPS DESIGN RISKS THROUGH IMPROVED AEROTHERMAL ENVIRONMENTS	Dr BRANDIS, Aaron
2:50 PM	[169] Ultra-Highspeed Optical Emission Spectroscopy: Benefits and Difficulties	LU, Nathan