



# 8th International Workshop on Radiation of High Temperature Gases for Space Missions

## Tuesday, 26 March 2019

### Numerical Simulations (09:00 - 12:00)

-Conveners: Christian Mundt; Louis Walpot

time	[id] title	presenter
09:00	[28] Radiation supported plasma waves in non-equilibrium laser discharges	Mr ALBERTI, Andrea
09:30	[42] Simulations of Carbon Dioxide Infrared Radiation in Shocked and Expanded Flows	Mr DUBUET, Ulysse
10:00	[22] Radiation Modeling in the PIC-DSMC code PICLAS	BEYER, Julian
10:30	Coffee Break	
11:00	[37] A pseudo-elastic mesh r-adaptation algorithm for hypersonic flows in COOLFluid	Mr BEN AMEUR, Firas
11:30	[38] A High-Order Flux Reconstruction Solver for Hypersonic Flows in COOLFluid	Mr VANDENHOECK, Ray

# Wednesday, 27 March 2019

## Numerical Simulations (17:30 - 18:00)

-Conveners: **Thierry Magin**

time	[id] title	presenter
17:30	[51] Sensitivities to Plasma Radiation Database Generation for a Prospective High Speed Earth Entry Demonstrator Mission	MERRIFIELD, James

# Thursday, 28 March 2019

## Numerical Simulations (11:30 - 12:30)

-Conveners: Markus Fertig

time	[id] title	presenter
11:30	[65] Computational Fluid Radiative Dynamics of the Galileo 1995 Jupiter Entry: An Assessment of Radiative Models and Databases Impact on Wall Heat Fluxes Uncertainties	Mr FERNANDES, Luis
12:00	[50] SELF-CONSISTENT STATE-TO-STATE MODEL FOR HYDROGEN IONIZATION IN HYPERSONIC SHOCK TUBE	Dr COLONNA, Gianpiero

## Numerical Simulations (14:00 - 15:00)

-Conveners: James Merrifield

time	[id] title	presenter
14:00	[36] 3D MONTE CARLO RADIATIVE TRANSPORT COMPUTATION FOR MARTIAN ATMOSPHERIC ENTRY	BONIN, Jannis
14:30	[63] Modeling And Experimental Investigation On CO2 Dissociation For Oxygen Production Under Martian Conditions	Dr SILVA, Tiago