

## Session Program

9-13 Jul 2023



## **CEC/ICMC 2023 Abstracts & Technical Program**

### ***C1Or2D: Thermophysics II: Numerical Studies***

Hawaii Convention Center

# Sunday 9 July

11:00

## C1Or2D: Thermophysics II: Numerical Studies

Session | Location: 323B | Conveners: Konstantin Matveev, Mohammad Kassemi

11:00-11:15

### C1Or2D-01: Recent Computational Fluid Dynamics Modeling of Flow Boiling During Cryogenic Propellant Transfer in Terrestrial and Reduced Gravity

**Speaker**

Jason Hartwig

11:15-11:30

### C1Or2D-02: Investigation and perspectives of using Graph Neural Networks to model complex systems: the simulation of the helium II bayonet heat exchanger in the LHC

**Speaker**

Luigi Serio

11:30-11:45

### C1Or2D-03: Vapor-Liquid Interfaces of Cryogenic Fluids in Presence of Non-Condensable Gases: Insights from Molecular Simulations

**Speaker**

Ashwin Ravichandran

11:45-12:00

### C1Or2D-04: Modeling of Cryogenic Heated-Tube Flow Boiling Experiments of Nitrogen and Methane with the Generalized Fluid System Simulation Program

**Speaker**

Michael Baldwin

12:00-12:15

### C1Or2D-05: A numerical investigation on vapor-liquid equilibrium of mixed-refrigerants by solving the Rachford-Rice equation

**Speaker**

Dr Nir Tzabar

12:15