

Tuesday 9 December

09:15

Simulation and Data Integration

Location: Cambridge, Massachusetts, USA, Hacker Reactor at MIT's iHQ. Address: 292 Main Street | MIT Bldg. E38 | Floor 7 | Cambridge, MA 02142

09:15-09:45 Digital twin workflow development for SPARC

Speaker

Tom Looby

09:45-10:10

A Multi-Physics Digital Twin for the Integrated Design and Optimization of an Inertial Fusion Energy **Power Plant**

Speaker

Dr Valeria Ospina Bohorquez

10:10-10:35

PathSim: An Open-Source Python Framework for Digital Twin Applications in Fusion Fuel-Cycle Modeling

Milan Rother

10:35

Wednesday 10 December

09:00

Simulation and Data Integration

Location: Cambridge, Massachusetts, USA, Hacker Reactor at MIT's iHQ. Address: 292 Main Street | MIT Bldg. E38 | Floor 7 | Cambridge, MA 02142

09:00-09:30

Digital Assembly work for BEST tokamak

Speaker

Xiongyi Huang

09:30-09:55

Development of a Mod-Sim Workflow for Multiphysics Assessment in EX-Fusion's Laser Fusion Test Chamber

Speaker

Max Monange

09:55-10:20

Bringing together integrated simulation, surrogates, and data to support digital twins for fusion engineering

Speaker

Casey Icenhour

10:25 14:00

Simulation and Data Integration

Location: Cambridge, Massachusetts, USA, Hacker Reactor at MIT's iHQ. Address: 292 Main Street | MIT Bldg. E38 | Floor 7 | Cambridge, MA 02142

14:00-14:30

Mesh and 3D Data Analysis Technology for Digital Twin

Eisung Yoon

14:30-14:55

PCMS: A Geometry and Discretization Aware Multi-physics Coupling Tool for Fusion Devices

Speaker

Jacob Merson

14:55-15:15

Walk from Hackerspace to PSFC

15:15-16:00 **PSFC Tour**

16:00