

Wednesday 10 December

16:00

Poster Session (at PSFC) Location: Cambridge, Massachusetts, USA, Hacker Reactor at MIT's iHQ. Address: 292 Main Street | MIT Bldg. E38 | Floor 7 | Cambridge, MA 02142 16:00-17:30 An Open-Source Divertor Digital Twin Environment for Fusion Power Plants Michael Battye Development of a data framework for conceptual design of fusion reactor Speaker JAE MIN Kwon An Overview of Methods and Applications for Data-Driven Predictive Maintenance in Fusion Devices Speaker Leonardo Caputo 16:00–17:30 Integrating Edge Analytics and HPC for Autonomous HED Experimental Workflows Speaker Abhik Sarkar 16:00-17:30 Bayesian Experimental Design to Enable Digital Twins Speaker Cyd Cowley 16:00-17:30 Digital Engineering for Fusion: Uncertainty Quantification in Neutronics Modeling Speaker Stefano Segantin 16:00-17:30 Leveraging Bayesian optimization for automated plasma composition optimization of ARC with physicsbased turbulent transport models Speaker Audrey Saltzman 16:00-17:30 Surrogate model generation using high-fidelity CGYRO predictions enabled by active learning techniques Speaker Aaron Ho

17:30