Workshop on Digital Engineering for Fusion Energy Research

Tuesday 9 December 2025 - Friday 12 December 2025

Cambridge, Massachusetts, USA

Topics

The programme will mainly consist of sessions dedicated to invited oral talks and poster presentations and discussions. A Programme Committee made up of a representative international membership will be responsible for selecting the invited oral and poster presentations and arranging the technical and discussion sessions, as well as for the overall scientific content of the event. The programme will feature the topical sessions below.

Simulation and Modelling Techniques

Domain specific simulation for engineering
Coupling multi-physics simulations
High-fidelity simulations using high performance computing

Data Techniques

Uncertainty quantification
Machine learning, surrogate modelling, and reduced models
Data collection and management for digital engineering
Design optimization and discovery

Simulation and Data Integration

Workflow
Configuration management
Digital twin