

Session Program

9–12 Dec 2025

Workshop on Digital Engineering for Fusion Energy Research

Data Techniques

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

Friday 12 December

09:00

Data Techniques: Data Techniques

Session |

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 **An ML-based design approach for Fusion Energy targets & components**

Speaker

Vignesh Perumal

09:30–09:55

Development of a Neural Operator-Based Surrogate Model for Accelerated Gyrokinetic Transport Calculations

Speaker

Abetharan Antony

09:55–10:20

A Cross Machine and Parametric Neural Operator Surrogate Model for MHD Simulations

Speaker

Qiyun Cheng

10:25