

Session Program

9–12 Sept 2025

Sixth IAEA Technical Meeting on Fusion Data Processing, Validation and Analysis

Data Analysis for Feedback Control

Fudan University, Shanghai, China, Auditorium Hall HGX 102 (Guanghua Twin Tower)
220 Handan Road, Yangpu District, Shanghai, China 邯郸路 220 号 复旦大学

Wednesday 10 September

10:45

Data Analysis for Feedback Control

Session |
Location: Fudan University, Shanghai, China, Auditorium Hall HGX 102 (Guanghua Twin Tower), 220 Handan Road, Yangpu District, Shanghai, China 邯郸路 220 号 复旦大学 |
Convener: Geert Verdoolaege

10:45–11:15 Integrated Intelligent Control Framework for Plasma in HL-3 Tokamak

Speaker
Rongpeng Li

11:15–11:40 Real-Time Detachment Forecaster: Decoding X-Point Radiation Oscillations in Impurity-Seeded Plasmas

Speaker
Yue Yu

11:40–12:05 FusionMAE: large-scale pretrained model to optimize and simplify diagnostic and control of fusion plasma

Speaker
Zongyu Yang

12:05–12:30 Validation and comparison of FPGA-based real-time Thomson Scattering data processing against offline analysis methods

Speaker
Wenyan Zhai

12:30

17:05

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17:05–17:30 Rapid analysis model and extrapolation method of neural network in spectral diagnostic

Speaker
Wenjing Tian

17:30–17:45 Imitation Learning-Based Feedforward Current Optimization for Tokamak Plasma Control

Speaker
Jingjing Lu

17:45