

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