Session Program

9–12 Sept 2025

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

Signal Processing and Anomaly Detection

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

Tuesday 9 September

10:45

Signal Processing and Anomaly Detection

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: Andrea Murari

10:45–11:15
A Comprehensive Strategy of Disruption Prediction to Avoid the Collapse of the Configuration in the Next Generation of Tokamak Devices

Speaker
Michela Gelfusa

11:15–11:40
Time series methods for fusion plasma disruption prediction

Speaker
Teddy CRACIUNESCU

11:40–12:05
Predictive Maintenance in Fusion Devices: Estimating the Remaining Useful Life of Plasma-Facing Component Units Using a Similarity-Based Approach

Speaker
Geert Verdoolaege

12:05–12:30
Determine the mode number and wave-number of plasma instability using harmonics in the spectrum

Speaker
Liwen Hu

12:30

13:30

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13:30–13:45
On Data-driven Approaches in Extracting RSAE mode in Tokamak Experiments

Speaker
Wenyang Li

13:45–14:00
Real-Time Identification of sawtooth on HL-3 using a deep learning framework

Speaker
Hongjia OuYang

14:00