

Session Program

13–18 Oct 2025

30th IAEA Fusion Energy Conference (IAEA FEC 2025)

Next Generation Modelling

Friday 17 October

08:30

Next Generation Modelling

Session | Location: Chengdu, China | Convener: Eisung Yoon

08:30–08:50

H-mode operation scenarios in JT-60SA initial research phase predicted by integrated core-pedestal-SOL/divertor simulation

Speaker

Dr Nobuyuki AIBA

08:50–09:10

UK STEP TOWARDS A FUSION POWER PLANT PLASMA

Speaker

Hendrik Meyer

09:10–09:30

A TALE OF TWO (VISCO)CITIES Electromagnetic Turbulence and Transport Bifurcations: Implications for Next- Generation Fusion Power Plants

Speaker

Daniel Kennedy

09:30–09:50

GLOBAL DISPERSION AND NONLINEAR DYNAMICS IN PLASMAS MODELED FOR JT-60U STRONGLY REVERSED MAGNETIC SHEAR CONFIGURATION EXHIBITING A SIGNATURE OF ITBS FROM L-MODE CHARACTERISTICS

Speaker

Rui Zhao

09:50–10:10

Integrated Modeling of DIII-D Super H-Mode using Improved Pedestal Physics and Integrated Core-Pedestal-Boundary Physics to Optimize Fusion Performance

Speaker

Kyungjin Kim

10:10