

Abstract Submission for IAEA Fusion Energy Conference(FEC)

Monday, 13 October 2025 - Saturday, 18 October 2025

Chengdu, China

Scientific Programme

Overview

Device overview, programme overview, topic overview

Magnetic Fusion Experiments

Toroidal and Helical Configurations, Confinement, Stability, Performance, Wave-plasma Interactions, Current Drive, Heating, Energetic Particles, Plasma-material Interactions, Divertors, Limiters, Scrape-off-layer

Magnetic Fusion Theory and Modelling

Confinement, Stability, Performance and Control, Wave-plasma Interactions, Current Drive, Heating, Energetic Particles, Plasma-material Interactions, Divertors, Limiters, Scrape-off-layer

Fusion Energy Technology

Control, Materials, Magnets, Engineering, System Integration, Radiation Transport and Activation, Safety, Maintenance and Remote Handling, Tritium Breeding, Fusion Nuclear Science and Technology

Inertial Fusion Energy

Experiments, Theory and Modelling, Materials, Power Plant Design, Targets, Drivers

Innovative and Alternative Fusion Concepts

Experiments, Theory and Modelling, Linear Configurations, Non-magnetic Configurations, Magneto-inertial Concepts, Hybrid Concepts

Pathways to Fusion

Fusion Plants (e.g., DEMO, Pilot Plants), Timelines, Roadmaps, Supporting Facilities, Partnership Frameworks, Commercialization, Supply Chains, Education and Training, Socio-economic and Environmental Aspects, Licensing