## **Session Program**

2-5 Sept 2025



## Technical Meeting on Tritium Breeding Blankets and Associated Neutronics

Topic I

IAEA Headquarters, Vienna, Austria

## **Tuesday 2 September**

09:50 Topic I: Session 1: Chaired by Richard Kamendje Session | Location: IAEA Headquarters, Vienna, Austria | Conveners: Luciano Giancarli, Qiang Qi, Kazunari katayama, Gabriele Ferrero, Lei Chen 09:50-10:30 The ITER TBM Program: A Pathway Towards Tritium Breeding Blankets For D-T Power Reactors Luciano Giancarli 10:30-11:10 Design and Multi-physical Performance Analysis of the WCCB and COOL Blankets for CFETR Speaker Lei Chen 11:10-11:40 Coffee break 11:40-12:10 The Performance Evaluation of Tritium Breeding Materials Under Service Conditions Speaker Qiang Qi 12:10-12:40 Performance Assessment and Integration of Different Tritium Extraction Technologies in the Outer Fuel Cycle Speaker Gabriele Ferrero 12:40-13:10 Experiments and Modeling on Tritium Mass Transfer in Solid Breeding Blanket Speaker Kazunari Katayama 13:10 14:30 Topic I: Session 2: Chaired by Alessandro Spagnuolo Session | Location: IAEA Headquarters, Vienna, Austria | Conveners: David Pickersgill, Hiroyasu Tanigawa, Gaetano Bongiovi, Dr Guangming Zhou, Davide Pettinari 14:30-15:10 Overview of JA DEMO Breeding Blanket Development Speaker Hiroyasu Tanigawa 15:10-15:40 Neutronic And Thermo-Mechanical Analysis in Support of The Design of The Water-Cooled Lead Ceramic **Breeder Breeding Blanket Concept for The EU DEMO** Speaker Gaetano Bongiovi 15:40-16:10 Design status of the European DEMO Helium Cooled Pebble Bed breeding blanket Speaker Guangming Zhou

16:10-16:40 Coffee break

16:40-17:10

OpenMC-based Parametric Neutronic Assessment of Fusion Breeding Blankets for Compact D-T Reactor Configurations

Speaker

Davide Pettinari

17:10-17:40

Reliability Optimised Blanket Using Simulation & Test: A Novel Approach to Breeder Blanket Design

Speaker

David Pickersgill

17:40

## Wednesday 3 September

09:00



12:20