

Session Program

8-12 Jun 2026

2nd Fusion Neutronics Meeting 2026

Neutronics Tools, Nuclear Data and Workflow Integration

Karlsruhe Institute of Technology, Campus north, FTU
Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen

Tuesday 9 June

12:30

Neutronics Tools, Nuclear Data and Workflow Integration

Session |

Location: Karlsruhe Institute of Technology, Campus north, FTU, Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen

12:30-13:00 **FENDL: Status and Future**

Speaker

Georg Schnabel

13:00

14:00

Neutronics Tools, Nuclear Data and Workflow Integration

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14:00-14:20

A Reliability-Based Framework for Prioritizing Nuclear Data Needs: Application to the Fusion Nuclear Science Facility

Speaker

Enrique Miralles-Dolz

14:20-14:40

Latest V&V results on FENDL 3.2c and OpenMC using JADE

Speaker

Davide Laghi

14:40-15:00

Evaluation of Nuclear Data Libraries and Simulation Methods for IFMIF-DONES Test System

Speaker

Victor Lopez Ochoa

15:00-15:20

Sensitivity Analysis and Uncertainty Quantification of Nuclear Data for Tritium Breeding Ratio in Fusion Reactor Blankets Based on the Differential Operator Perturbation Method

Speaker

QingMing He

15:20

15:50

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15:50-16:10

Concrete Shielding Experiment at FNG: Benchmarking MCNP Simulations using JEFF 3.3 and JEFF 4.0 nuclear data libraries

Speaker

Virginie Lombardi

16:10-16:30

Overview of measurements with silicon-carbide, lithium glass and optical fibers detectors in the FNG Concrete Shielding Experiment

Speaker

Andrea Colangeli

16:30–16:50

The ICSBEP Concrete Labyrinth Benchmark: A comparative analysis between OpenMC and MCNP

Speaker

Marta Campos Fornés

16:50

Wednesday 10 June

12:30

Neutronics Tools, Nuclear Data and Workflow Integration

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12:30–12:50

Automated CAD to Neutronics Workflows with Stellarmesh

Speaker

Alexander Koen

Location

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12:50–13:10

Development of parallel automatic void generation capabilities in GEOUNED conversion tool

Speaker

Juan García Bueno

Location

Online

13:10

14:10

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14:10–14:30

A User-Friendly OpenMC-Based Workflow for CAD-Driven Fusion Neutronics and Engineering Design

Speaker

Dr Jonathan Walg

Location

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14:30–14:50

Implementation of a Deuterium-Lithium Neutron Source in OpenMC for IFMIF-DONES Neutron Calculation tasks

Speaker

Roman Afanasenko

Location

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14:50–15:10

Experimental verification and improvement of the TCV facility computational model

Speaker

Mark Fortuna

Location

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15:10-15:30

14-MeV Neutron Irradiation Experiments for Fusion Applications

Speaker

Dr Sudhirsinh Vala

Location

Online

15:30

Thursday 11 June

10:00

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10:00–10:20

First application of N1S code for calculation of dose due to movement of activated DONES components

Speaker

Tom Berry

10:20–10:40

Adapting the D1S Methodology for High-Fluence Fusion Environments with Tungsten: application to ITER

Speaker

Alberto Bittesnich

10:40

11:10

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11:10–11:30

R2SUNED implicit stochastic uncertainty propagation scheme applied to JET

Speaker

Javier Alguacil

11:30–11:50

Recent Progress in Nuclear Response Cross-Section Research at Harbin Engineering University

Speaker

Prof. Wen Yin

11:50–12:10

Building programmable study platform for Activated Corrosion Products assessment

Speaker

Dr Alberto Previti

12:10–12:30

Time-Aware Conformal Uncertainty Quantification with Physics-Consistent Projection for Radioactivity-Related Time-Series Prediction in Fusion Blankets

Speaker

Xiaokang Zhang

12:30