FuseNet PhD Event 2025 ITER

Pecha Kucha Session 1
Tuesday, 15:15-16:15

Order	Name	Contribution Title
1	Francisco Miranda	Tungsten for ITER, irradiation campaign with gadolinium shielding: Hardening and embrittlement.
2	Nastasija Petkovic	From midplane to divertor: an experimental characterization of edge turbulence in L-mode plasmas at the COMPASS tokamak
3	James Tufnail	Investigating the fusion-relevant field performance of REBCO superconductors before and following irradiation
4	Marianna Szambelan	Optimising poloidal field coils using Bayesian optimisation
5	Niladri Roy	First experiments with the radar-based diagnostic system for the monitoring of the IFMIF-DONES lithium target
6	Alysée Khan	Design of a Fast Reciprocating Diagnostic to Characterize the Boundary Plasma in the Tokamak à Configuration Variable
7	Shengyi Chao	Science, Art, and Technology: New Aesthetics for Scientific Data Visualization

Pecha Kucha Session 2
Tuesday, 17:30-18:30

Order	Name	Contribution Title
1	Valentina D'Agostino	Machine Learning prediction of bolometric signals from AXUV diode measurements for fast plasma events in tokamak devices
2	Jannik Wagner	A comparative study of Rayleigh scattering and established methods for calibration of the Thomson scattering diagnostic at W7-X
3	Sim Bhaker	Engineering Chaos: High Entropy Alloys for Fusion Shielding
4	Rachele Cicioni	ELMs dynamics and NTM onset for ITER baseline scenario at TCV
5	Brian Steward	Soft X-Ray Tomography In MAST-U
6	Alejandro González	DIONE: Automating the analysis of W7-X Doppler Reflectometry data with neural networks
7	Fernando Puentes del Pozo	How to build your tokamak from scratch. What you won't find in the literature coming from the SMART tokamak team.

Pecha Kucha Session 3
Wednesday, 9:00-10:00 CET

Order	Name	Contribution Title
1	Mateo Bellouard	ITER Pulse Design Simulator: TORAX IMAS adaptation and coupling.
2	Marta Damiano	GENeuSIS: a neutron test bed facility for diagnostics and critical components of ITER
3	Charlotte Brown	Impact of the use of a dual laser system on the microstructure and mechanical properties of tungsten
4	Lennard Ceelen	Identifying reduced-order models for density control with pellets
5	Yahya Nasir	Computational and analytic solutions for the effective upper critical magnetic field of superconducting filaments with coatings of arbitrary resistance
6	Kitt Thomas	Chaos as the Cause of Random Tearing Mode Onset Times in DIII-D ITER Baseline Scenario Plasmas
7	Ethan Attwood	Working in Public Policy: Science, Strategy and Scandals

Pecha Kucha Session 4
Thursday, 11:15-12:15 CET

Order	Name	Contribution Title
1	ROFAIDA NIHED MEKKI	Application of ECWR for Tin Removal with Prospective Use in Tokamaks with Liquid Metal Divertor
2	Bailey Cook	Exploring spectral energy transfer in nonlinear gyrokinetic simulations to understand zonal flow drive
3	Rojin Mehrara	Nuclear Analysis and Shielding Performance for the RGRS and HRNS in ITER Equatorial Port 1
4	Jiří Malinak	Impurity transport modelling for COMPASS Upgrade
5	Rose Blyth	Reduced model for TAE resonance overlap criterion describing fast ion transport scenarios
6	Vaishnavi Murugesan	Power deposition studies using calibrated ECE at Wendelstein 7-X
7	Luca Orlandi	Data recovery in SXR emission tomography via Neural Networks