

FuseNet PhD event 2026 University of Tuscia - Viterbo

Pecha Kucha session 1: Tuesday 13 October 2026 - 11:05-12:20 (8)

Order	Name	Contribution title
1	Eleonora Agus Poletti	Rapid synthetic IR diagnostic for ITER first wall heat load control applications
2	Stefano Colombi	Breeding Blanket Neutronic Parametric Studies of ARC-like reactor
3	Tomás Sousa	Phase-shift of ITER-like first mirrors in strongly magnetised plasma
4	Dilmurod Tuymurodov	Nuclear data uncertainty assessment for IFMIF-DONES neutronics and activation predictions
5	Lizzie Mushangwe	Nanomechanical response of radiation damage in oxide dispersion strengthened ferritic/martensitic alloys
6	Wan Wan Mohammad	Grain-Ccale Creep-Fatigue Behaviour of OFHC Copper Divertor using In-situ Neutron Diffraction for Structural Integrity Assessment Code
7	Edgard Zuin	Movable diagnostics for spatially resolved measurements in negative ion beams and sources
8	Márton Vavrik	Schlieren diagnostic for the characterization of propellant gas flow suppression in the Shattered Pellet Injector of the ITER DMS

Pecha Kucha session 2: Wednesday 14 October 2026 - 17:00-18:30 (10)

Order	Name	Contribution title
1	Sebastian Ruiz	Flexible Grids for Simulating Complex Tokamak Topologies
2	Sohail Afzal	Electromagnetic Assessment of Toroidal Field Coils in an Alternative Magnetic Layout Tokamak Configuration as Basis for REBCO Joint Development
3	András Zsákai	LUCID – Luminescence-based gas Curtain Imaging Diagnostics for beam profile analysis
4	Gaurav Verma	An Innovative, Modular Breeding Blanket Concept for Fusion Reactors: Design and Manufacturing Status
5	Elsa Verheul	Modelling Magnetohydrodynamic Effects on Dendritic Solidification in Fusion Steels during Additive Manufacturing
6	Loes Jansen	Plasma fuelling with pellets: how neuromorphic control compares to sigma-delta modulation.
7	Sanjana Reddy	Analysis framework for quantitative understanding of power losses during transients within detachment, with 2D inference of plasma parameters during ELM burn-through
8	Francesco Desana	Performance Evaluation of Supercapacitors for Energy Storage in Tokamak Applications
9	Virginie Lombardi	Concrete Shielding Experiment at FNG: Benchmarking MCNP Simulations using JEFF 3.3 and JEFF 4.0 nuclear data libraries
10	Federico Ruffini	Design, integration and performance assessment of a first-of-a-kind poloidally distributed plasma position reflectometry system in DTT

Pecha Kucha session 3: Thursday 15 October 2026 - 11:15-12:45 (10)

Order	Name	Contribution title
1	Beatrix Curtis	Physically-based crystal plasticity modelling of thermal and irradiation creep in fusion structural materials
2	Sebastian Konevko	kobra: a new Vlasov code with AMR
3	Ruairi McCabe	Inside the Seam: Residual Stress and Microstructural Change in EB-Welded UK-RAFM Steel
4	Lorenzo Votta	Kinetic modelling of runaway electrons in ITER disruptions with shattered pellet injection
5	Luca Cinnirella	Novel code suite for beam simulation and design
6	John Lloyd Baker	MAST-U vertical control via non-magnetic diagnostics and surviving a PhD
7	Matteo Grandin	Physics-Informed Neural Network Surrogate for Real-Time Magnetic Equilibrium Reconstruction and Shape Control in Tokamaks
8	Juan Gallego	Physics-Informed Neural Network Modelling of Perpendicular Energy Diffusion in the Scrape-Off Layer of Nuclear Fusion Devices
9	Rhoen Eate	Real-time control of plasma position in spherical tokamaks by reflectometry
10	Jonathan Flocken	Systematic optimisation of a collective Thomson scattering system for JT-60SA