

FuseNet PhD event 2026 - Tuscia University - Viterbo

Poster session 2: Wednesday 14 October 15:00 - 16:30

Panel	Name	Affiliation	Topic of your PhD project
1	Luigi Cacciapuoti	University of Tuscia, Italy	CODAC
2	Luigi Persico	École Polytechnique Federale de Lausanne (EPFL) - Swiss Plasma Center, Switzerland	Motional-Stark spectroscopy for current distribution determination in the plasma core
3	Luisa Hübner	Technical University of Denmark, Denmark	Assessing the influence of magnetic materials on the magnetic field of Stellarators
4	Marcell Málics	HUN-REN Centre for Energy Research, Hungary	Defining operation parameters and developing a parahydrogen catalyst for hydrogen pellet injector
5	Marcello Capasso	Commissariat à l'Energie Atomique, France	Simulation numérique du transport dans le plasma de bord en configuration stellarator par une méthode éléments-finis d'ordre élevé Galerkin discontinue
6	Marco Neri	Consorzio CREATE - Università degli Studi di Napoli Federico II - Università di Padova	Linearized 3D MHD Equilibria in Tokamaks using Finite Elements
7	Marta Damiano	University of Rome Tor Vergata	GENeUS neutron facility
8	Matthew Warner	University of Manchester, United Kingdom	Crystal plasticity modelling and uncertainty quantification for fusion materials. Project title: Integrated computational risk assessment for fusion materials
9	Mattia Bevilacqua	Università di Padova-Centro Ricerche Fusione, Italy	Advanced electronics for signal acquisition and signal processing for fusion-wise experiments
10	Max Parker	Coventry University	Novel multiscale modelling of turbulence and transport barriers in magnetic confinement fusion plasmas
11	Michael Crabbe	University of Manchester, United Kingdom	Fusion Engineering: Scaled Experimental Platform for Magnetically Confined Fusion Process Emulation and Digital Twin Integration.
12	Michal Odložilik	Czech Technical University in Prague, Czech Republic	Reconstruction of Kinetic Profiles with Neural Networks and Their Application to Fusion Research
13	Miquel Hillen	Universität Basel	Boronisation studies for ITER wall conditioning
14	Mohammad Amin Imani	Roma Tre University	Radiofrequency Analyses of Power Combination in Novel, DTT, ICRH, MW-level, Solid-state Amplifiers
15	Momoko Kato	University of Padova	High Voltage insulation in the Neutral Beam Injectors for Fusion Reactor
16	Morgana Maria Trizzino	Politecnico di Milano, Italy	Design of innovative protective coatings for liquid metal corrosion mitigation in nuclear applications via High Power Impulse Magnetron Sputtering
17	Naharai Osmel Ramirez Soto	University of Manchester, United Kingdom	TEM characterization of irradiation creep in RAFM steels
18	Noé Bundschuh	University of Liverpool, United Kingdom	Optimizing the Exhaust Performance via Magnetic Geometry in Advanced Divertors
19	Ondřej Bareš	Institute of Plasma Physics Prague, Czech Republic	Magnetic field of fusion reactors
20	Philipp Zenz	Fusion@OAW, Austria	Modeling effects of 3D magnetic perturbation on plasma rotation in tokamaks
21	Qianyi Sun	University of Oxford, United Kingdom	Irradiation tolerance of high temperature superconducting tapes, coils, joints, and associated magnet components
22	Qingyun Hu	Istituto per la Scienza e la Tecnologia dei Plasmi (ISTP - CNR Milano), Italy	Optimisation of DTT operation scenarios
23	Quentin Kernel	EPFL - Swiss Plasma Center	Fast-ion physics in the TCV tokamak
24	Rachael O'Sullivan	University of York, United Kingdom	AI-Assisted High Repetition Rate Development at European XFEL
25	Aleksandar Stojcheski	Universite Cote d'Azur	Pooidal field system design and optimization for compact tokamaks
26	Rahul Banka	University of Manchester, United Kingdom	Permeation resistant, novel ceramic materials for the fusion fuel cycle
27	Rajbir Kaur	CEA, Cadarache	Numerical modeling of highly radiated plasma scenarios for WEST and JT60SA
28	Rebecca Giulia Novara	Università degli Studi di Milano-Bicocca, Italy	Simulations of Fast Ion and Alpha Particle Confinement in Burning Plasmas Experiments: Orbit Loss Mechanisms, Instabilities and Surface Power Loads
29	Ren Kimura	École Polytechnique Federale de Lausanne (EPFL) - Swiss Plasma Center, Switzerland	Study of liquid Tin and Plasma interactions under Magnetic field
30	Riccardo Brambilla	Eindhoven University of Technology, The Netherlands	W7X neutronics simulation for new neutron diagnostics with application to fast-ion confinement
31	Rick van Schaik	Eindhoven University of Technology, The Netherlands	Speeding up tokamak core-edge integrated modelling with SOL surrogate models.
32	Robyn Ledgard	UK Atomic Energy Authority, United Kingdom	2D Solid State Hydrogen Isotope Separation Membranes
33	ROFAIDA NIHEED MEKKI	Charles University in Prague, Czech Republic	Low-temperature plasma processes for applications in sustainable technologies
34	Rushavya Naidu	University of Liverpool	Multiphysics Data-Driven Validation Framework for Component Qualification in Fusion
35	Sahil Valiyev	SCK CEN Belgian Nuclear Research Centre, Belgium	Weldability of advanced EU-developed steels
36	Sam King	Durham University, United Kingdom	Superconductivity for fusion applications
37	Samuel Novak	University of York, United Kingdom	Fully non-inductive startup of spherical tokamaks for power plants
38	Sanah Hussain	University of Basel	Plasma-wall interaction in fusion reactors.
39	Jort van Kesteren	DIFFER	Chemical Erosion and Hydrogen Retention of Boron Thin Films using in-situ Ion Beam Analysis in Upgraded Pilot-PSI
40	Shaivi Gupta	University of Basel	Radio-frequency plasma cleaning for ITER diagnostic first mirrors
41	Shaswathan Sanjeev Vijay	University of Sheffield	Understanding Micro-Breeder Performance via Multiscale Material Modelling of Tritium with Interfaces in Vanadium Alloys
42	Simone Kaldas	University of Rome Tor Vergata	Machine Learning Methods for Tokamak Diagnostics Data Processing
43	Sophie Broekers	Eindhoven University of Technology, The Netherlands	Operational Availability as a Bottleneck in Fusion Replication
44	Syeda Nafisa Abdul Anis	University of Manchester, United Kingdom	Lithium Isotope Separation- a theoretical approach for material design.
45	Timo Bogaarts	Eindhoven University of Technology, The Netherlands	Differentiable neutronics for stellarator design
46	Tommaso Fontana	University of Tuscia, Italy	The design of integrators for DTT magnetic measurements
47	Vaishnavi Murugesan	Max Planck Institute for Plasma Physics, Germany	ECRH power deposition studies using ECE radiometers
48	Valentina D'Agostino	University of Rome Tor Vergata, Italy	Design and implementation of the bolometric diagnostic for DTT
49	Vojtěch Smolik	Czech Technical University in Prague, Czech Republic	Cooling channels for high heat flux cooling in fusion applications
50	Warren Smith	Durham University, United Kingdom	High-Field Superconductors in Fusion Energy Tokamaks Under Extreme Strain
51	Willem Rutten	Eindhoven University of Technology, The Netherlands	Digital engineering of future stellarator reactors
52	William Rudrum	University of Manchester, United Kingdom	Atomistic Modelling of retention and transport of Tritium in Liquid Lithium and candidates for the structural materials for a breeder blanket.
53	William Seeley	UK Atomic Energy Authority, United Kingdom	Turbulent transport of tungsten in the pedestal
54	Yahya Nasir	Durham University, United Kingdom	Superconductivity
55	Youpeng Wang	Department of Physics, University of Basel	Development of the RF plasma cleaning techniques for ITER diagnostic mirrors
56	ziwei li	SCK CEN Belgian Nuclear Research Centre, Belgium	Small Punch Test for Nuclear Structural Materials
57	Sebastian Konewko	Ghent University, Belgium	Kinetic modeling of edge plasmas
58	Felix Watts	University of York	Comparison of reduced models for plasma turbulence in high-beta conditions
59	Alfredo Cioffi	Roma Tre University	Modelling and simulation of DTT inhomogeneous plasma load in CST
60	Biao Lyu	Karlsruhe Institute of Technology, Germany	Numerical simulation of magnetohydrodynamic flows in complex liquid metal blanket geometries in fusion reactors
61	Thiti Aungcharoen	Technical University of Denmark, Denmark	Novel path to improved fusion reactor performance through controlled powder injection