FuseNet PhD event 2024 - Stuttgart

Pecha Kucha Session 1:

Tuesday 11:30-13:00

ID	Name	Contribution title (draft)
2	Eugenia Obeng-Akrofi	The Political Economy of Energy Transitions: the Role of Fusion on the Climate Change Debate
6	Álvaro Martínez Pechero	Modeling fracture dynamics in materials for nuclear fusion
32	Jacopo Lombardo	TRANSP analysis of JET baseline scenario DTE2 and DTE3
7	Pablo Fernández-Mayo	Experiments and thermo-hydraulic simulations of liquid metal samples in porous structures and solid samples exposed to pulses of high thermal loads in the OLMAT device.
10	Willem Rutten	Stellarator power plant design: a model-based system engineering approach
14	Yacopo Damizia	Measuring Ion Temperature in the MAST_U Divertor
15	Tobias Slade-Harajda	Aneutronic D-He3 particle-in-cell simulations and the 14.68MeVproton species influence on the Ion Cyclotron Emission
16	Lovepreet Singh	Benign termination of Runaway Electrons in JET
19	Youpeng Wang	RF plasma cleaning technology for ITER first mirror diagnostics

Pecha Kucha Session 2

Wednesday 9:45-11:15

ID	Name	Contribution title (draft)
20	Tomás Sousa	Magnetised plasma erosion pattern on semi-circular electrodes
28	SHAOKAI TANG	Deuterium and Helium Plasma Test on W/Diamond Composite with Magnum-PSI
30	Garance Durr-Legoupil-Nicoud	Detachment of TCV L-mode Negative Triangularity plasmas: Impurtiy seeding and effect of divertor closure
33	Matteo Gambrioli	Investigation of intrisic error fields in MAST-U device
40	Pierrick Giroud-Garampon	How to improve the performance of gyrotrons
17	Felicity Maiden	Modelling Microwave Start-up in Spherical Tokamaks
42	Mark Cornelissen	Visualizing the near-surface plasma flows with coherence imaging spectroscopy
43	Ewout Devlaminck	Turbulence-inclusive Modelling of Electron-Cyclotron Wave-PlasmaDynamics in Tokamaks

Pecha Kucha Session 3

Wednesday 15:30 – 17:00

ID	Name	Contribution title (draft)
55	Andrea Valentini	Fast-ion tomography: a journey towards fusion-born alpha diagnosis
61	Seana Youssefi	An Near-Atomic-Scale Study of the Microstructure and Mechanical Properties of Tungsten and Tungsten-based Alloys
62	Saleem Lubbad	A Novel Approach to Interpret High-Temperature Small Punch Test Results Using Finite Element Simulation and Gaussian Process Regression
66	Andrés Orduña Martínez	RE distribution function reconstruction using multi-spectral systems
70	Elia Novarese	Multi-physics modelling for the digital twin of MW-class gyrotrons for plasma heating in fusion reactors
72	Letizia Melaragni	Advance in modelling of disruption plasma scenario in view of a Shattered Pellet Injection in DTT machine
111	Andreas Hentrich	Material Science for the Microwave Components of ITER

Pecha Kucha Session 4

Thursday 9:00 – 10:30

ID	Name	Contribution title (draft)
97	Hjalte Durocher	Kinematic and Dynamic Modelling of the Breeding Blanket Transporter for Robotic Remote Maintenance of EU DEMO
112	John Lloyd Baker	Thermal based vertical control in the MAST-U tokamak
113	Yurii Martseniuk	Study of glow discharge plasma parameters on the Uragan-2M
116	Andrea Fimiani	Preliminary Design of a General Control Architecture for the DTT Remote Handling Facility
118	Lucas van Ham	Modelling ion orbits in the Wendelstein 7-X neutral beam box
122	Mark Higgins	Optimisation of EBW Power Deposition and Current Drive in SphericalTokamaks by Numerical Simulation and Resonance Condition Analysis
53	Alessio Quamori Tanzi	Structured Porous Media for high heat flux removal in the W-7X stellarator divertor tiles
95	Nick Osborne	Novel understanding of the role of plasma-molecular kinetics on divertor power exhaust.