

Tuesday 10th

Start	End	Auditorium	Foyer	Projektraum	Seminar 1			
8:00	8:10		Registration					
8:10	8:20							
8:20	8:30							
8:30	8:40							
		session_welcome						
8:40	8:50	Welcome statement						
8:50	9:00							
		session_plenary_1						
9:00	9:10	P1 - Open Source License Compliance - Trust, Tips, Trends <i>Martin Yagi</i>						
9:10	9:20							
9:20	9:30							
9:30	9:40	P2 - Free Function API for CadQuery <i>Adam Urbańczyk</i>						
9:40	9:50							
9:50	10:00							
10:00	10:10	Tea/coffee break						
10:10	10:20							
		session_oral_A			session_tut_1			
10:20	10:30	A1 - Probabilistic characterisation of neutron spectra with the nFoils package <i>Louis Butt</i>			T1 - Struphy 3.0 - Using Python for HPC Plasma Modeling <i>Stefan Possanner</i>			
10:30	10:40							
10:40	10:50	A2 - Gaussian Processing Framework for Neutron Generator Diagnostics and Uncertainty Quantification <i>Collin Dunn</i>			T2 - Tutorial: an introduction to the Gkeyll simulation framework for both research and education  <i>James Juno</i>			
10:50	11:00							
11:00	11:10	A3 - Summary of V&V efforts for OpenMC <i>Jonathan Shimwell</i>						
11:10	11:20							
			session_poster_1					
11:20	11:30		Poster session 1					
11:30	11:40							
11:40	11:50							
11:50	12:00							
12:00	12:10							
12:10	12:20							
12:20	12:30	Lunch						
12:30	12:40							
12:40	12:50							
12:50	13:00							
13:00	13:10							
13:10	13:20							
13:20	13:30							
13:30	13:40							
		session_panel						
13:40	13:50	Panel session  Topic: Commercialisation of open-source  Panellists: <i>Stephen Coleman</i> <i>Zach Hynek</i> <i>Baptiste Mouginot</i>						
13:50	14:00							
14:00	14:10							
14:10	14:20							
14:20	14:30							
14:30	14:40							
		session_oral_C		session_oral_D	session_tut_2			
14:40	14:50	C1 - Constraining Equilibria with Toroidal Harmonics in the Bluemira Design Framework <i>Clair Mould</i>		D1 - The FEniCS Finite Element framework: introduction and applications in nuclear fusion simulations <i>Massimiliano Leoni</i>	T3 - Getting started with IMAS open-source: a beginner's tutorial <i>Olivier Hoenen</i>			
14:50	15:00			D2 - A comparison of open source data distribution tools for global data sharing <i>Stephen Dixon</i>				
15:00	15:10	C2 - Exploring fusion power plant trade-offs with FUSE: An open-source multi-objective optimization framework <i>Tom Neiser</i>		D3 - Overview of the capabilities in the Multiphysics Object Oriented Simulation Environment and recent activities in modeling and simulation for fusion energy systems <i>Corey DeChant</i>	T4 - A Snapshot of Fusion Neutronics with OpenMC <i>Patrick Shrivise</i>			
15:10	15:20							
15:20	15:30	C3 - FUSE Integrated Modeling Framework for FPP design, Scenario Optimization and Model Validation <i>Tom Neiser</i>						
15:30	15:40							
15:40	15:50	Tea/coffee break						
15:50	16:00							
		session_oral_E		session_oral_F	session_tut_3			
16:00	16:10	E1 - Modeling Permeator Probe for Tritium Concentration in Liquids <i>Kaelyn Durnell</i>		F1 - Pydantic on Steroids - Managing Reproducible Simulation Data at Scale <i>Lukas Bonauer</i>	T5 - Modular Tokamak Design and Simulation Open Source Framework <i>Alexei Zhurba</i>			
16:10	16:20			F2 - ConStellaration: A dataset of QI-like stellarator plasma boundaries and optimization benchmarks <i>Santiago Cadena</i>				
16:20	16:30	E2 - Modeling an Inertial Fusion Reactor system using CoSApp, an open-source Python library. <i>Hugo Chesneau</i>		F3 - Simsopt: A flexible framework for stellarator optimisation <i>Chris Smiet</i>	T6 - TokaLab: A Modular Virtual Tokamak Laboratory for Education, FAIR Principles, and Algorithm Benchmarking <i>Riccardo Rossi</i>			
16:30	16:40							
16:40	16:50	E3 - Uncertainty Quantification Tools for Lithium Ceramics-based Tritium Breeding Module <i>Yehor Yudin</i>						
16:50	17:00							

Wednesday 11th

Start	End	Auditorium	Foyer	Projektraum	Seminar room 1
8:40	8:50	Tea/coffee			
8:50	9:00	Tea/coffee			
		session_plenary_2			
9:00	9:10	<p>P3 - Solving fusion problems in FEnICSx</p> <p>Joseph Dean</p> <hr/> <p>P4 - Fusion &amp; Nuclear Engineering at scale</p> <p>Andrew Davis</p>			
9:10	9:20				
9:20	9:30				
9:30	9:40				
9:40	9:50				
9:50	10:00				
10:00	10:10	Tea/coffee break			
10:10	10:20				
		session_oral_G		session_oral_H	
10:20	10:30	G1 - Deep Learning-Based Surrogate Models and RL Control for Extreme Vacuum Environments in Fusion Research <i>Guillermo Rodriguez Llorente</i>		H1 - Integration of Open-Source Fusion Codes into Commercial Design Workflows <i>Sunil Acharya</i>	<p>T7 - PathSim: An Open-Source Python Framework for Dynamic System Simulation in Fusion Energy Applications</p> <p>Milan Rother</p> <hr/> <p>T8 - PathView: a graphical interface for system modelling (using PathSim)</p> <p>Remi Delaporte-Mathurin</p>
10:30	10:40	G2 - Pellet Fueling: AI-Enhanced Surrogate Model HPI2-NN and Integrated Modelling <i>Alex Panera Alvarez</i>		H2 - Extending FLUNED with OpenMC Capabilities for Coupled CFD-Neutronics Simulation of Activated Coolants in Fusion Systems <i>Marco De Pietri</i>	
10:40	10:50	G3 - Energy-Aware Kubernetes: Monitoring and Analyzing Fusion Simulation Power Consumption with Kepler <i>Shakthi Kannan</i>		H3 - foamForNuclear: A Modular Multiphysics Platform for Fusion and Fission Applications <i>Giovanni Nervi</i>	
10:50	11:00				
11:00	11:10				
11:10	11:20	session_poster_2			
11:20	11:30	Poster session 2			
11:30	11:40				
11:40	11:50				
11:50	12:00				
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12:10	12:20				
12:20	12:30	Lunch			
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		session_plenary_3			
13:40	13:50	<p>P5 - Introducing the BLUEMIRA fusion reactor design tool</p> <p>Matti Coleman</p> <hr/> <p>P6 - IMAS-compatible components of a digital twin environment</p> <p>Daan van Vugt</p>			
13:50	14:00				
14:00	14:10				
14:10	14:20				
14:20	14:30				
14:30	14:40				
		session_oral_I		session_oral_J	
14:40	14:50	I2 - Using Gkeyll as a self-consistent gyrokinetic predictive tool for tokamak edge turbulence <i>Antoine Hoffmann</i>		J1 - FAIR and Flexible: Fusion Data Mapping with TokaMap and libTokaMap <i>Jonathan Hollocombe</i>	<p>T9 - Overview of the FESTIM Workshop: Applications and Tutorial Introduction</p> <p>Chirag Khurana</p> <hr/> <p>T10 - A FEnICS tutorial: finite element notebooks</p> <p>Chris Richardson</p>
14:50	15:00	I3 - GSFit: Grad-Shafranov Fit - A new equilibrium reconstruction code for tokamak plasmas <i>Peter Buxton</i>		J2 - Comparing APIs for semi-Lagrangian and particle-in-cell methods <i>Nils Schild</i>	
15:00	15:10			J3 - DECIMA: Open-Source AI-assisted analysis of MCNP PTRAC files for neutronics in fusion and fission <i>Quentin Ducasse</i>	
15:10	15:20				
15:20	15:30				
15:30	15:40				
15:40	15:50	Tea/coffee break			
15:50	16:00				
		session_oral_K		session_oral_L	
16:00	16:10	K1 - Is there a space for freelancer in scientific open source development <i>Baptiste Mougnot</i>		L1 - PROCESS Systems Code and its use in the STEP Concept Design Workflow <i>Christopher Ashe</i>	<p>T11 - GVEC - a flexible 3D MHD equilibrium solver</p> <p>Robert Babin</p> <hr/> <p>T12 - The Open FUSION Toolkit: An open-source suite of fusion modeling tools for engineering, analysis, and education</p> <p>Chris Hansen</p>
16:10	16:20	K2 - Using open-source tools and platforms to build a multi-tenant development environment for fusion research <i>Bartomiej Pogodzinski</i>		L2 - SOLPS-NN: Neural Networks for Scrape-Off Layer Simulations <i>Stefan Dasbach</i>	
16:20	16:30	K3 - Forecasting Fusion's Role in the Marketplace of Tomorrow <i>Hugo Bullows Weeks</i>		L3 - Latest Developments in TORAX: A Differentiable Simulator for Fusion Pulse Planning and Optimization <i>Phillippe Hamel</i>	
16:30	16:40				
16:40	16:50				
16:50	17:00				
17:00	17:10				
		session_closing			
17:10	17:20	Awards ceremony and closing remarks			
17:20	17:30				