

DAY-1 08-April		ITER-Amphitheatre, B-72 Ground Floor	Lecture room B72/1012
		Plenary1 : Chair Subhash Puthanveetil	
9:00	9:30	Welcome+ Other details	
9:30	10:10	Inauguration by DG followed by a presentation on ITER-Status and Re-baseline (<i>Barabaschi Pietro, IO</i>)	
10:10	10:30	IO Nuclear Analysis Roadmap 2024-28 (<i>Le Tonqueze Yannick,IO</i>)	
10:30	10:50	Overview of F4E activities (<i>Marco Fabbri, F4E</i>)	
10:50	11:10	Tea	
		Tim Eade (Chair)	Andrei Tchistiakov (chair)
11:10	11:30	Integrated Fusion Neutronics Workflow for OpenMC, MCNP, and Shift (<i>Jin Whan Bae, ORNL</i>)	Suppression of Rhenium and Osmium Production in Tungsten by Selective Isotopic Enrichment (<i>Mark Anderton, Oxford Sigma</i>)
11:30	11:50	Investigation of OpenMC for nuclear analysis of ITER (<i>Alex Valentine, UKAEA</i>)	Boron carbide ceramics as an in-vessel shielding material: the long road from concept to mass production (<i>Andrey Shoshin, BINP</i>)
11:50	12:10	OpenMC Fusion Benchmarks: Streamlining Fusion Neutronics Validation and Collaboration (<i>Stefano Segantin, MIT</i>)	Depletion analysis and material damage on 3D ARC-class reactor (<i>Davide Pettinari, Politecnico di Torino</i>)
12:10	12:30	Conversion and Performance Optimization of the ITER E-lite Model with OpenMC (<i>Paul Romano, Argonne National Laboratory</i>)	Novashield® HE : A New generation of High Efficiency RadioProtection Materials for fusion Applications. High Hydrogen content and High fire resistance (<i>Fady El Haber, Lemer Pax</i>)
12:30	12:50	Implementation of Attila4MC's contiguous mesh converting method to a DAGMC geometry for transport calculations in OpenMC (<i>Felipe Novais, MIT</i>)	Advanced Shielding Materials for Spherical Tokamaks (<i>Mayank Rajput, Tokamak Energy</i>)
12:50	13:40	Lunch	
		Fabbri Marco (Chair)	Saerom Kwon (Chair)
13:40	14:00	ITER NEUTRON SOURCE SPECIFICATION FOR OPENMC (<i>Egor Afanasenko, Rosatom</i>) [REMOTE]	Advanced Breeding Blankets neutronic designs and assessments for DEMO and HELIAS (<i>IOLE PALERMO, CIEMAT</i>)
14:00	14:20	Development and validation of fully open-source R2S shutdown dose rate capabilities in OpenMC (<i>Ethan Peterson, MIT</i>)	Comparative assessment of available toolsets for ITER nuclear analysis (<i>Alberto Previti, ENEA</i>)

14:20	14:40	Physics-Informed Neural Networks for Neutronic Heating (<i>ZHEYUAN MIAO, University of Manchester</i>)	JMCT and its application in CFETR (<i>Xue Ming Shi, Bei Jing Institute of Applied Physics and Computational Mathematics</i>) (REMOTE)
14:40	15:00	Green's function approach for performance assessment of ITER neutron diagnostics (<i>Andrei Kovalev, IO</i>)	Neutronic analyses of two irradiation modules for the HCPB breeding blanket inside the IFMIF-DONES Test Cell (<i>Arkady Serikov, KIT</i>)
15:00	15:20	Tea	Tea
		Rosaria Villari (Chair)	Arkady Serikov (Chair)
15:20	15:40	F4E-Radwaste and other open source developments (<i>Alvaro Cubi, F4E</i>)	Neutronics activities for A-FNS facility design (<i>Saerom Kwon, National Institutes for Quantum Science and Technology (QST)</i>)
15:40	16:00	Applications of F4Enix to scoping studies on W FW, borated water and blanket SB (<i>Alberto Bittesnich, F4E</i>)	Nuclear Analysis Requirements for Compact Fusion Pilot Plants (<i>Maya Padivattathumana, IPR,INDIA</i>) (REMOTE)
16:00	16:20	UNED developments for the calculation of radiation source models associated with water cooling circuits in fusion installations. (<i>Marco De Pietri, UNED</i>)	Present activities on Neutron Engineering of WCCB-TBS (<i>Kenta Ochiai, National Institutes for Quantum Science and Technology (QST)</i>)
16:20	16:40	Status of GEOUNED code (<i>Patrick Sauvan, UNED</i>)	Advanced Neutronics techniques of Spherical Tokamaks (<i>Jonathan Naish, Tokamak Energy</i>)
16:40	17:00	Towards automatic CAD defeaturing for fusion neutronics (<i>Raska Soemantoro, University of Manchester</i>)	Neutronics analysis of lithium-chloride, lithium-fluoride salt as a tritium breeder for fusion reactors (<i>Collin Dunn, MIT</i>)

DAY-2 09-April		ITER-Amphitheatre, B-72 Ground Floor	Lecture room B72/1012
		Plenary2: Georg Schnabel (Chair)	
9:00	9:20	Neutronics activities for KODA diagnostics (<i>YoungHwa An , Korea Institute of Fusion Energy</i>)	
9:20	9:40	Overview of UNED research activities in support of ITER neutronics (<i>Rafael Juarez, UNED</i>)	
9:40	10:00	Overview of IN DA Neutronics Activities (<i>BHOOMI GAJJAR, ITER-India</i>) (REMOTE)	
10:00	10:20	Recent Progress on Neutronic Analysis for ITER Diagnostics procured by JADA (<i>Masao Ishikawa, JA-DA</i>) (REMOTE)	
10:20	10:40	Fusion Neutronics Challenges for ITER Analyses (<i>Kara Godsey, ORNL</i>)	
10:40	11:00	Tea	
		Alex Valentine (Chair)	Bruno Coriton (Chair)
11:00	11:20	Development of radiation sources based on CAD models for the nuclear analysis of IFMIF-DONES lithium loop (<i>Juan García Bueno, Universidad de Granada & KIT</i>) (REMOTE)	Nuclear Data and Uncertainty Qualification for Nuclear Fusion Reactor Design (<i>Michael Loughlin presented by Kara Godsey, ORNL</i>)
11:20	11:40	Investigations into JET Soft Waste generation, speciation and detritiation (<i>Thomas Stokes, UKAEA</i>)	FENDL: Current status and plans for the future (<i>Georg Schnabel, IAEA</i>)
11:40	12:00	ITER Hot Cell – A complete radiation environment assessment to support its design and operation (<i>Pablo Martínez Albertos, UNED</i>)	Nuclear Data Uncertainty Propagation to Neutron Diagnostics (<i>Mark Fortuna, Jožef Stefan Institute</i>)
12:00	12:20	Vacuum Induction Melting as a detritiation technique (<i>Stephen Reynolds, UKAEA</i>)	External libraries for D1S calculations for TRIPOLI-4 and MCNP-5/6 Monte Carlo codes in fusion applications (<i>Yannick PENELIAU, CEA</i>)
12:20	12:40	Development of fusion neutronics tools at ASIPP and its application on CFETR radwaste assessment (<i>Xiaokang Zhang, Institute of Plasma Physics, Hefei Institutes of Physical Science</i>)	Proof of concept for the propagation of input data uncertainties (<i>Pol Guijosa, UNED</i>)
12:40	13:00	Recommendations for nuclear heating calculations in support of ITER (<i>Aljaz Kolsek , UNED</i>)	Applying on-the-fly (OTF) variance reduction technique to radiation transport simulations of fusion facilities (<i>Roman Afanasenko , KIT</i>)
13:00	14:00	Lunch	
14:00	17:00	SITE VISIT (Group-1) and SITE VISIT (Group-2)	

DAY-3 10-April		ITER-Amphitheatre, B-72 Ground Floor	Lecture room B72/1012
		Plenary 3 : RAFAEL JUAREZ MANAS (Chair)	
9:00	9:20	Compact sealed-tube D-D neutron generator with dedicated monitoring system suitable for ITER in situ calibration of neutron diagnostics <i>(Timofey Kormilitsyn, Institution "Project Center ITER" (ITER RF DA))</i>	
9:20	9:40	Progress on neutronics design and analysis in SWIP <i>(Shen Qu, Southwestern Institute of Physics)</i>	
9:40	10:00	Key neutronics outcomes of DT campaigns at JET for ITER nuclear operations <i>(Rosaria Villari, ENEA)</i>	
10:00	10:20	Overview of STEP nuclear analysis <i>(Tim Eade, UKAEA)</i>	
10:20	10:40	Tea	
		Igor Lengar (Chair)	Kara Godsey (Chair)
10:40	11:00	Experimental observation and integrated modelling of proton-beryllium fusion in He and D plasmas at JET <i>(Žiga Štancar, UKAEA)</i> (REMOTE)	Nuclear analyses for ITER Diagnostics Equatorial Ports <i>(Davide Flammini, ENEA)</i>
11:00	11:20	Digital Twin Modelling Framework for Fusion Reactor Components <i>(Michael Battye, University of York)</i>	Monte Carlo simulations for ITER Neutron Diagnostics <i>(Giovanni Mariano, IO)</i>
11:20	11:40	Setup of recent neutronic experiments in support of ITER at JET and at FNG <i>(NICOLA FONNESU, ENEA)</i>	Actionable workflows for fusion neutronics simulation <i>(William Smith, University of Manchester)</i>
11:40	12:00	SPARC Neutronics Models Applied to Neutron Flux Monitor Design <i>(R Gocht, Commonwealth Fusion System)</i>	Radiation conditions improvement in ITER tokamak complex due to leakage through penetrations <i>(Jyoti Agarwal, IPR, INDIA)</i>
12:00	12:20	Roadmap for Activated Corrosion Products (ACPs) Assessment in Fusion Reactors: A Global Collaborative Approach <i>(Dario Carloni, IO)</i>	Application of high throughput neutronics simulation in fusion power plant design framework Bluemira <i>(Ocean Wong, UKAEA)</i>
12:20	12:40	Overview of the ongoing EUROfusion R&D activities on the ITER Activated Corrosion Products <i>(Simone Noce, ENEA)</i>	
12:40	13:40	Lunch	
		Yannick PENELIAU (Chair)	Stephen Reynolds(Chair)

13:40	14:00	R2S-RFDA DEVELOPMENT STATUS (<i>Dmitri Portnov, Rosatom</i>)	Neutronics studies on parametrized magnetic confinement fusion reactors using Serpent2 Monte Carlo code (<i>Tommi Lyytinen, VTT Technical Research Center of Finland</i>)
14:00	14:20	Analysis of a Segmentation Approach to Breeder Blanket Design and the Utilisation of FLiBe as a Novel Neutron Reflector (<i>Adam Barker, University of Manchester</i>)	Fusion Neutronics Analysis Capabilities in the Monte Carlo code RMC (<i>KOK YUE CHAN, Tsinghua University, Beijing</i>)
14:20	14:40	DT fusion power assessments on a tokamak based on line of sight neutron spectroscopy measurements at JET and prospects for ITER (<i>Davide Rigamonti, CNR-ISTP</i>)	Applicability analysis of FLUKA for fusion neutronics (<i>Xilong Tong, Institute of Plasma Physics, Chinese Academy of Sciences</i>)
14:40	15:00	KATANA- closed water activation loop at the JSI TRIGA (<i>Igor Lengar, Jožef Stefan Institute</i>)	Assessing performance tradeoffs of DAGMC and CSG geometries for fusion neutronics models (<i>Katelin Du, MIT</i>)
15:00	15:20	14 MeV Neutron Source Facility at Institute for Plasma Research: Characteristics and Applications (<i>H L SWAMI, IPR, INDIA</i>)	Nuclear Heating Deposition in the ITER Vacuum Vessel (<i>Antonio-Jesus Lopez-Revelles, UNED</i>)
15:20	15:40	Increasing Toroidal Field Magnet Lifetime via Entrained Hydride Shielding Composites (<i>Jack Fletcher, MIT</i>)	Calculation of Magnet Heating Profiles Using Advanced Unstructured Mesh Variance Reduction Techniques (<i>Amanda Johnson, Commonwealth Fusion Systems</i>)
15:40	16:00	Estimation of Shutdown Dose Rates for Occupational Radiation Exposure and implementation of ALARA in ITER (<i>Rafael Juarez, UNED</i>)	Nuclear analyses in support of the ITER Radial Neutron Camera design development (<i>Fabio Moro, ENEA</i>) (REMOTE)
16:00	16:20	Tea	
LE TONQUEZE YANNICK (Chair)			
16:20	17:00	Closing session	