

28th IAEA Fusion Energy Conference (FEC 2020)

Thursday, 13 May 2021

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[1163] Benchmark-experiment for evaluating nuclear data libraries used to model subcritical blanks of thermonuclear installations	Dr ZHIRKIN, Alexey	
[708] Experimental Validation of Tritium Recovery System from Liquid PbLi Breeding Blanket by Vacuum Sieve Tray Concept	Dr OKINO, Fumito	
[1266] Implementation of novel technique to support the Electromagnetic forces and to ensure the structural reliability of refurbished Toroidal Field Magnet system of the ADITYA-U Tokamak.	DOSHI, bharatkumar	
[1121] Current status of DEMO activated waste studies	BAILEY, Greg	
[1218] Progress on the Neutronic and Shielding Analyses of CFETR	Mr CAO, Qixiang	
[864] Fusion devices as neutron sources for FFH (Fusion Fission Hybrid Reactors): Analysis of tokamak parameters , readiness level and design of concept validation experiments	Mr ORSITTO, Francesco Paolo	
[1001] Prototype tests of the Electromagnetic Particle Injector concept demonstrating its primary advantages for Fast Time Response Disruption Mitigation in Tokamaks	Mr RAMAN, Roger	
[876] Development of Plant Concept Options of Energy Production in JA DEMO and its Adaptability for Ancillary Service in Future Grid	Dr HIWATARI, Ryoji	
[1198] Neutronics Effect Study of Homogeneous Model on Solid Breeder Blanket	Mr QU, Shen	
[838] The Electrochemical Approaches for the Development of a Liquid Blanket System	YAGI, Juro	
[1393] [REGULAR POSTER TWIN] A Low Plasma Current (~ 8 MA) Approach for ITER's Q=10 Goal	DING, Siye	
[1415] [REGULAR POSTER TWIN] KNOSOS, a fast neoclassical code for three-dimensional magnetic configurations	Dr VELASCO GARASA, Jose Luis	
[1434] [REGULAR POSTER TWIN] MIRA: a Multiphysics Approach to Designing a Fusion Power Plant	Dr FRANZA, Fabrizio	
[1436] [REGULAR POSTER TWIN] Preparing the Systems Code PROCESS for EU-DEMO Conceptual Design	MORRIS, James	
[1439] [REGULAR POSTER TWIN] Maintenance of a Fusion Power Plant: The EU Approach	Mr CROFTS, Oliver	
[1438] [REGULAR POSTER TWIN] Role of Core Radiation Losses From Plasma and Its Impact on ST Reactor Design Parameter Choices	Dr DESHPANDE, Shishir	
[1440] [REGULAR POSTER TWIN] Advanced second generation high temperature superconductor wire for fusion	Dr MOLODYK, Alexander	
[1435] [REGULAR POSTER TWIN] Progress in design and engineering issues on JA DEMO	SOMEYA, Youji	
[1437] [REGULAR POSTER TWIN] Mission and Configuration Studies for a U.S. Sustained High-Power Density Tokamak Facility*	MENARD, Jonathan	

[899] Helium doped plasmas on FTU	Dr MAZZOTTA, Cristina	
[1041] FIRST OHMIC EXPERIMENTS ON KTM TOKAMAK	SADYKOV, Anuar	
[1055] Toroidal field coil quench caused by runaway electrons on the WEST tokamak	REUX, Cedric	
[901] CVD Diamond Detectors for Fast VUV and SX-Ray Diagnostics on FTU	BOMBARDA, F.	
[963] Optimization of lower hybrid wave coupling for the WEST LHCD launchers	LIANG, Anshu	
[1042] Latest results on quiescent and post-disruption runaway electrons mitigation experiments at Frascati Tokamak Upgrade	CARNEVALE, danielle	
[981] Behavior of Heavy Metal Ions in FTU Plasmas	Dr CARRARO, Lorella	
[1127] Comparison of various combinations of emitters and collectors of the tokamak T-11M lithium circuit	Prof. MIRNOV, Sergey	
[795] Stabilization of vertical plasma position in the PHiX tokamak with saddle coils	Mr NAITO, Shin	
[1205] Investigations of coupling MHD duct flows under inclined transversal magnetic fields for liquid metal blankets	ZHANG, Xiujie	
[1333] Development and integration study of fusion-fission hybrid systems into nuclear power fuel cycle	Dr SHPANSKIY, Yury	
[633] Fusion Specific Technology Readiness Levels	Prof. PRINJA, Nawal	
[882] High-temperature superconducting magnet system for the next-generation helical device	Prof. YANAGI, Nagato	
[1270] Entrapment of impurities inside a cold trap: A purification process for removal of corrosion impurities from molten Pb-16Li	DEOGHAR, ANKUSH	
[819] TECH Evaluation of tritium production rate in a blanket mock-up using a compact fusion neutron source	Dr MUKAI, Keisuke	
[1224] Divertor power loads and scrape off layer width in the large aspect ratio full tungsten tokamak WEST	Dr GASPAR, jonathan	
[1053] Divertor Tokamak Test Facility: Science Basis and Status of the Project	Prof. MARTIN, Piero	
[1186] Strategies for first wall power flux management during plasma current ramp-up on ITER	Dr PITTS, R. A.	
[1283] Developing high performance RF heating scenarios on the WEST tokamak	GONICHE, Marc	
[896] Building a Turbulence-Transport workflow incorporating uncertainty quantification for predicting core profiles in a tokamak plasma.	Dr COSTER, David	
[706] Drift-kinetic theory of neoclassical tearing modes close to threshold in tokamak plasmas	Prof. WILSON, Howard	
[791] Isotope effects in ion temperature gradient modes with radial electric field in Large Helical Device	MORITAKA, Toseo	
[653] A New Hybrid Model for Efficient Simulation of Ion Scale Electromagnetic Turbulence in Tokamak Plasma	Dr SEO, Janghoon	
[685] Turbulence model reduction by deep learning	HEINONEN, Robin	
[641] MARS-Q Modeling of kink-peeling instabilities in QH-mode plasma	DONG, Guanqi	
[869] Cross-scale interactions between trapped-electron-mode and electron-temperature-gradient-mode turbulence	MAEYAMA, Shinya	
[843] Integrated Transport Simulation of LHD Plasma Applying Data Assimilation Technique	Mr MORISHITA, Yuya	

[726] Zonal Flow Amplification in Rotating Tokamak Plasmas	YI, Sumin	
[698] Neural Network Model of the Multi-Mode Anomalous Transport Module	Ms MOROSOHK, Shira	
[770] Progress in theoretical understanding of the Dimits shift and the tertiary instability in drift-wave turbulence	ZHU, Hongxuan	
[1035] Impact of aspect ratio on tokamak confinement: nonlinear gyrokinetic evidence, WEST results and implications for DEMO	SARAZIN, Yanick	
[866] Global Gyrokinetic Particle Simulations of Microturbulence in W7-X and LHD Stellarators	NICOLAU, Javier H.	
[738] Particle Simulation on Merging Processes of Two Spherical Tokamak-Type Plasmoids Confined in a Conducting Vessel	USAMI, Shunsuke	
[674] Transport Physics of the Density Limit	DIAMOND, P.H.	
[651] Role of zonal flow staircase in electron heat avalanches in KSTAR L-mode plasmas	QI, Lei	
[657] Global calculation of neoclassical impurity transport including the variation of electrostatic potential	FUJITA, Keiji	
[820] Effects of core plasma on the low frequency Alfvén and Acoustic eigenmodes	CHAVDAROVSKI, Ilija	
[670] A Planning Study of Virtual DEMO based on Computer Simulations	CHUNG, Hyun Kyung	
[1070] New Compact Torus Injection System on KTX reversed field pinch device	CHEN, Chen	
[646] Stellarators as a Fast Path to Fusion	Prof. BOOZER, Allen	
[895] Direct recycling of fuel gas from divertor pumping and its impact on tritium self-sufficiency of DEMO without initial loading	Dr KONISHI, Satoshi	
[827] Design study of large superconducting coil system for JA DEMO	UTOH, Hiroyasu	
[724] Low-resistance Joint Development for Segment-fabrication of High-temperature Superconducting Fusion Magnets	ITO, Satoshi	
[1241] Fragmentation behaviors and mechanical properties of the tritium breeder pebble bed for fusion blanket	Mr GONG, Baoping	
[1140] PROJECT OF THE FUEL CYCLE BASED ON THE EXAMPLE OF THE IGNITOR TOKAMAK AT THE RUSSIAN SITE	Mr ROZENKEVICH, Mikhail	
[1034] The Dual Coolant Lithium Lead breeding blanket: status and perspectives	Dr RAPISARDA, David	
[976] Modelling of hydrogen trapping, diffusion and permeation in tokamak	Dr GRISOLIA, Christian	
[746] Modeling of deuterium radiation transport in Super-X and snowflake divertor plasmas in MAST-U tokamak	SOUKHANOVSKII, Vsevolod	
[629] Impact of plasma flow velocity shear and neutrals on edge plasma instabilities	Prof. KRASHENINNIKOV, Sergei	
[764] Process Intensification in Water Detritiation System : A Case Study	Mr GUPTA, SULABH	
[640] Concept development and candidate technologies selection for the main DEMO-FNS fuel cycle systems	ANANYEV, Sergey	
[1274] A SOLUTION TO EVACUATE ENORMOUS GAS LOAD IN A FUSION MACHINE DURING BAKING AND PLASMA OPERATION: CRYOPUMP	GANGRADEY, Ranjana	
[1324] Analysis of Heat Transport and Pipe-routing Considerations for Blanket to Steam Generator for A Fusion Reactor	PRAJAPATI, Piyush	
[1337] EU DEMO cryogenic system and cryodistribution: Pre-conceptual design for an optimal cooling of the superconducting magnets and the thermal shields	HOA, Christine	

[762] Designing and experimental validation of prototypes of liquid lithium plasma facing components for steady-state tokamak	VERTKOV, Alexey	
[1199] Realization of divertor configuration discharge in J-TEXT tokamak	Dr CHEN, Zhipeng	
[821] Development of JT-60SA equilibrium controller with an improved ISO-FLUX method and vertical displacement events predictor	INOUE, Shizuo	
[1010] Measuring and modeling helium accumulation in single crystal tungsten specimens exposed to He plasma discharges in the WEST reciprocating collector probe	Prof. WIRTH, Brian	
[1130] Long discharges in steady state with D2 and N2 on the actively cooled tungsten upper divertor in WEST	Dr LOARER, Thierry Dr DITTMAR, Timo	
[1202] Disruption mitigation by shattered pellet injection on J-TEXT	CHEN, Zhong	
[1045] Test results of active thermography method for plasma-wall interaction studies on the KTM tokamak	CHEKTYBAYEV, Baurzhan	
[1027] Formation of the radial electric field profile in WEST tokamak	VERMARE, Laure	
[1159] Investigation of plasma wall interactions between tungsten plasma facing components and helium plasmas in the WEST tokamak	TSITRONE, Emmanuelle	
[861] Investigation of fast ion transport induced by ICRF heating and MHD instabilities in JET plasma discharges	Dr TEPLUKHINA, Anna	
[824] Mechanism of toroidal flow generation by electron cyclotron heating in HSX and LHD plasmas	YAMAMOTO, Yasuhiro	
[805] Gyrokinetic simulations in stellarators using different computational domains	SÁNCHEZ, Edilberto	
[850] Experimental validation of neutral beam current drive simulations in TJ-II plasmas	MULAS, sadig	
[768] Extended Bounce-Kinetic Model for Trapped Particle Mode Turbulence	HAHM, Taik Soo	
[644] Nonlinear equilibria and transport processes in burning plasmas	Dr FALESSI, Matteo Valerio	