

28th IAEA Fusion Energy Conference (FEC 2020)

Wednesday 12 May 2021

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[1253] Cryogenics system performance enhancement and attempt towards shaped plasma operation in SST-1	TANNA, Vipulkumar	
[890] Completion of assembly and high-voltage insulation test of DC 1 MV power supply system for the ITER neutral beam test facility	Dr TOBARI, Hiroyuki	
[1192] The design of an ITER EHF first wall panel with mechanically attached plasma-facing fingers	Mr WU, Jing	
[828] Recent development of engineering design for quas-axisymmetric stellarator CFQS	Dr SHIMIZU, Akihiro	
[849] Development of the thermal insulation devices for the JT-60SA tokamak	SHIBAMA, Yusuke	
[1308] MHD velocity distribution and pressure drop in manifolds of a WCLL TBM	MISTRANGELO, Chiara Prof. BÜHLER, Leo	
[1242] Excitation of Beta-Induced Alfvén Eigenmodes by Magnetic Island	Prof. CAI, Huishan	
[1495] [REGULAR POSTER TWIN] Isotope identity experiments in JET with ITER-like wall	MAGGI, Costanza	
[1480] [REGULAR POSTER TWIN] Shattered Pellet Injection experiments at JET in support of the ITER Disruption Mitigation System design	JACHMICH, Stefan	
[1479] [REGULAR POSTER TWIN] Theory and Modelling activities in support of the ITER Disruption Mitigation System	NARDON, Eric	
[1463] [REGULAR POSTER TWIN] Influence of large magnetic island structures on turbulence and quasi-coherent modes in tokamak plasmas	JIANG, Min	
[1455] [REGULAR POSTER TWIN] Exploring the physics of a high-performance H-mode with small ELMs and zero gas puffing in JET-ILW	DE LA LUNA, Elena	
[1454] [REGULAR POSTER TWIN] Experimental investigation and gyrokinetic simulations of multi-scale electron heat transport in JET, AUG and TCV	MARIANI, Alberto	
[1446] [REGULAR POSTER TWIN] L-H transition studies at JET: H, D, He and T	Dr SOLANO, Emilia R.	
[1445] [REGULAR POSTER TWIN] Role of the separatrix density in the pedestal performance in JET-ILW and JET-C	FRASSINETTI, Lorenzo	
[1423] [REGULAR POSTER TWIN] Scenario preparation for the observation of alpha-driven instabilities and transport of alpha particles in JET DT plasmas	Dr DUMONT, Remi	
[1419] [REGULAR POSTER TWIN] A Machine Learning Approach for Data Visualization and Parameter Selection for Efficient Disruption Prediction in Tokamaks	BANDYOPADHYAY, Indranil	

[1418] [REGULAR POSTER TWIN] In-depth Research on the Interpretable Disruption Predictor in HL-2A	Mr YANG, Zongyu	
[1416] [REGULAR POSTER TWIN] Implementation of Artificial Intelligence (AI)/Deep Learning Disruption Predictor into a Plasma Control System	Prof. TANG, William	
[1414] [REGULAR POSTER TWIN] Supercritical stability of the Large Helical Device plasmas due to the kinetic thermal ion effects	Dr SATO, Masahiko	
[1413] [REGULAR POSTER TWIN] Progress on the ITER DMS design and integration	Dr LUCE, Timothy C.	
[1412] [REGULAR POSTER TWIN] Reliability of electrodeposited components for fusion application: A process evaluation of the first kind	JOSHI, Jaydeepkumar	
[1411] [REGULAR POSTER TWIN] Design Optimization and Safety Assessment of CN HCCB TBS	WANG, Xiaoyu	
[1410] [REGULAR POSTER TWIN] New Developments in Russia of Gyrotrons for Plasma Fusion Installations	Prof. DENISOV, Grigory	
[1409] [REGULAR POSTER TWIN] Status of the ITER Neutral Beam Test Facility and the first beam operations with the full-size prototype ion source	SERIANNI, GIANLUIGI	
[1408] [REGULAR POSTER TWIN] ITER Plasma Control System Final Design and Preparation for First Plasma	SNIPES, Joseph	
[1407] [REGULAR POSTER TWIN] Design and Performance of Shattered Pellet Injection Systems for JET and KSTAR Disruption Mitigation Research in Support of ITER	BAYLOR, Larry R.	
[1406] [REGULAR POSTER TWIN] Progress on performance tests of ITER-gyrotrons and design of dual-frequency gyrotron for ITER staged operation plan	Dr IKEDA, Ryosuke	
[1405] [REGULAR POSTER TWIN] Completion of the First ITER Toroidal Field Coil in Japan	NAKAMOTO, Mio	
[1397] [REGULAR POSTER TWIN] Role of resonant magnetic field penetration in ELM suppression and density pump-out in DIII-D ITER-like plasmas	Dr NAZIKIAN, Raffi	
[1394] [REGULAR POSTER TWIN] Integrated scenario development at JET for DT operation and ITER risk mitigation	GARCIA, Jeronimo	
[978] Termination of discharges in high performance scenarios in JET	SOZZI, Carlo	
[774] Control of H/D isotope mix by peripheral pellets in H-mode plasma in JET	VALOVIC, M	
[1151] Comparative Study of Phase Dynamics in Reynolds Stress and Particle Flux in the Edge Turbulence of HL-2A Tokamak	Dr LONG, Ting	
[1244] Effect of ECRH and LHW on pedestal instabilities in Type-I ELMy H-mode of the HL-2A tokamak	Dr WEN, Jie	
[635] Gamma-ray spectrometry for confined fast ion studies in D3He plasma experiments on JET	ILIASOVA, Margarita	
[789] Frequency slowly-sweeping Alfvénic modes on the HL-2A tokamak	Mr SHI, Peiwan	
[1123] Experimental Evidence of Nonlinear Avalanche Dynamics of Energetic Particle Modes	Dr YU, Liming	
[973] Analysis of the inter-species power balance in JET plasmas	Mr WEISEN, Henri	
[1272] Analysis of nonlinear mode-mode interaction using Hilbert transform on HL-2A	ZANG, Linge	
[1239] Effects of LHCD and LBO on Runaway Electron Dynamics during Disruptions in the HL-2A Tokamak	Dr ZHANG, Yipo	

[1171] The mechanism research of double strike points of the divertor particle flux in HL-2A ECRH plasmas	Dr WU, Na	
[1184] Plasma Rotation Studies Carried out in the TCABR Tokamak and its Comparison with Neoclassic Theory	SEVERO, Jose Helder	
[889] EXPERIMENTAL AND COMPUTATIONAL INVESTIGATIONS OF ALFVÉN EIGENMODE STABILITY IN JET PLASMAS THROUGH ACTIVE ANTENNA EXCITATION	Dr TINGUELY, Roy	
[1107] Enhanced confinement and thermal transport decoupling in H-mode plasmas with impurity seeding	Dr ZHONG, Wulyu	
[1106] Facets of alpha particle physics anticipated in D-3He plasmas in preparation for deuterium-tritium at the Joint European Torus	Dr NOCENTE, Massimo	
[1226] Intrinsic rotation reversals of JET and DIII-D plasmas in Deuterium and Hydrogen	Dr NAVE, Maria Filomena F.	
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[1189] ELM suppression and flow damping with n=1 RMP fields in tokamaks plasmas	ZHANG, Neng	
[1139] Edge Coherent Mode Providing Continuous Transport during ELM Mitigation with n=1 RMP in HL-2A H-mode plasma	LIU, yi	
[921] Disruption Thermal Load Mitigation with JET SPI	SHEIKH, Umar	
[797] Non-resonant global mode in LHD partial collapse with net toroidal current	ICHIGUCHI, Katsuji	
[846] 3D nonlinear modeling of Resonant Magnetic Perturbation on EAST	HUANG, JIE	
[955] Pellet Ablation Physics Studies for Disruption Mitigation	BREIZMAN, Boris	
[938] Simulations and Validation of Disruption Mitigation and Projections to ITER's Disruption Mitigation System	KIM, Charlson C.	
[1072] Global Forces on Tokamak Wall during Disruptions	YANOVSKIY, Vadim	
[817] Requirements for Runaway Electron Avoidance in ITER Disruption Mitigation Scenario by Shattered Pellet Injection	Dr MATSUYAMA, Akinobu	
[853] Vessel Forces from a Vertical Displacement Event in ITER	Dr JARDIN, Stephen	
[1044] The transport of NTM-controlling EC wave due to density fluctuations in European DEMO	Dr SNICKER, Antti	
[985] Theory of Quasi-mode Parametric Decay in Plasmas	Prof. GAO, Zhe	
[904] Global gyrokinetic simulation of turbulence in optimized stellarators	COLE, Michael	
[658] Models and scalings for the disruption forces in large tokamaks	Dr PUSTOVITOV, Vladimir	
[1017] Novel Tridimensional Processes in Fusion Burning Plasmas and Gained Innovative Perspectives	Dr COPPI, Bruno	
[898] Energy balance during pellet assimilation	ALEJNIKOV, Pavel	
[947] Disruption Avoidance via RF Current Condensation in Magnetic Islands	REIMAN, Allan	
[858] Passive deconfinement of runaway electrons using an in-vessel helical coil	WEISBERG, David	
[783] Stabilization of kink/peeling modes by coupled rotation and ion diamagnetic drift effects in QH-mode plasmas in DIII-D and JT-60U	Dr AIBA, NOBUYUKI	

[1268] A physics model of the rotating halo current during VDE disruption	PARK, ByoungHo	
[1062] Confinement studies with low recycling walls in LTX- β	MAJESKI, Richard	
[1061] Tokamak T-15MD – preparing for physical start-up	Mr KHVOSTENKO, Petr	
[1277] Status of the design optimization, analysis and R&D activities of Indian HCSB blanket program	Dr CHAUDHURI, Paritosh	
[932] Stellarator Simplification with Permanent Magnets	Dr GATES, David	
[1273] Integration of ITER diagnostic ports in BINP	BURDAKOV, Aleksandr	
[877] Commissioning of JT-60SA Cryogenic System with Active Control to Mitigate Heat Load Fluctuation	Mr HAMADA, Kazuya	
[775] Recent Progress in Shattered Pellet Injection Technology in Support of the ITER Disruption Mitigation System	Dr GEBHART, Trey	
[687] Large Scale experimental facility for assessment the performances of the vacuum vessel pressure suppression system of ITER	Prof. AQUARO, Donato	
[1193] The Development of the ITER Enhanced Heat Flux First Wall Panels with Mechanically Attached Plasma Facing Finger Units	CHEN, Jiming	
[912] Towards simpler coils for optimized stellarators	Dr ZHU, Caoxiang	
[822] Achievement of precise assembly of the JT-60SA superconducting tokamak	Dr MATSUNAGA, Go	
[1100] Progress in physics and system integration of ITER Core X Ray Crystal Spectrometer	Mr BADER, Amro	
[1238] NSTX-U Recovery Project Progress Towards First Plasma	Mr GERHARDT, Stefan	
[1208] Dual Effects of the Impurity Seeding by LBO on the Pedestal Instabilities	XIAO, Guoliang	
[991] Recent key contributions of ICRF heating in support of plasma scenario development and fast ion studies on JET and ASDEX Upgrade	Prof. MANTSINEN, Mervi J.	
[1147] Combined effects of turbulence, MHD activity and sawtooth crashes on particle transport in L-mode discharges on HL-2A tokamak	LI, Dong	
[977] High performance ITER-baseline discharges in deuterium with nitrogen and neon-seeding in the JET-ILW	Dr GIROUD, Carine	
[694] Comparison of Particle Transport and Confinement Properties between the ICRH and NBI Heated Dimensionless Identity Plasmas on JET	TALA, Tuomas	
[1051] SOL profile and fluctuations in different divertor recycling conditions in H-Mode plasmas	VIANELLO, Nicola	
[1089] Taylor relaxation in Wendelstein 7-X	ALEJNIKOVA, Ksenia	
[961] Non-linear MHD modelling of Edge Localized Modes suppression by Resonant Magnetic Perturbations in ITER.	BECOULET, Marina	
[1196] Disruption mitigation in tokamak reactor via reducing the seed electrons of avalanche	Mr SERGEEV, Vladimir	
[777] The Alternating-hyperbolic sawtooth	SMIET, Christopher	