

28th IAEA Fusion Energy Conference (FEC 2020)

Friday, May 14, 2021

P7 Posters 7 (8:30 AM - 12:30 PM)

[id] title	presenter	board
[734] Study of negative ion beam optics in real and phase spaces	Dr KISAKI, Masashi	
[624] Thermal hydraulic modeling and analysis of ITER tungsten divertor monoblock	Prof. EL-MORSHEDY, Salah EI-Din	
[671] Overview of Fusion Research Activities in the Republic of Kazakhstan	Prof. TAZHIBAYEVA, Irina	
[1211] Reduction of Critical Heat Flux due to steep power transients on PFCs	MENON, Vinay	
[756] Development of 28/35 GHz Dual-Frequency and 14 GHz Gyrotrons for Advanced Fusion Devices	KARIYA, Tsuyoshi	
[779] High Field Side Launch Lower Hybrid Current Drive for CFETR	WALLACE, Gregory	
[845] Characteristics of the extracted negative-ion beam in a cesium-free negative-ion source using TPDsheet-U	Prof. TONEGAWA, Akira	
[1339] Divertor Design for Low-Recycling Regime Tokamak: Concept, Experiments and Simulations	KOLEMEN, Egemen	
[1088] Neutral beam injection for fusion reactors: technological constraints versus functional requirements	HOPF, Christian	
[911] Observation of tungsten plasma-facing components after the first phase of operation of the WEST tokamak	DIEZ, MATHILDE	
[1110] R&D Progress of the Divertor Material/Component Testing Facilities of CRAFT	ZHOU, Hai-Shan	
[1448] [REGULAR POSTER TWIN] Spontaneous ITB formation in gyrokinetic flux-driven ITG/TEM turbulence	Prof. IMADERA, Kenji	
[1449] [REGULAR POSTER TWIN] How the narrow Edge—Scrape-Off Layer Interface Self-Organises Turbulence Globally	DIF-PRADALIER, Guilhem	
[1451] [REGULAR POSTER TWIN] Effects of Magnetic Islands on Plasma Confinement and Self-driven Current Generation	Dr WANG, Weixing	
[1453] [REGULAR POSTER TWIN] Improved prediction scheme for turbulent transport by combining machine learning and first-principle simulation	Dr NUNAMI, Masanori	
[1469] [REGULAR POSTER TWIN] Plasma Exhaust and Divertor Designs in Japan and Europe Broader Approach, DEMO Design Activity	Dr ASAKURA, Nobuyuki	
[1474] [REGULAR POSTER TWIN] 100 seconds negative ion accelerations for JT-60SA negative-ion-based neutral beam injector	Dr KASHIWAGI, Mieko	
[1465] [REGULAR POSTER TWIN] Materials and Components for the DEMO Divertor	Prof. NEU, Rudolf	
[1466] [REGULAR POSTER TWIN] Advanced Multi-Step Brazing (AMSB) for Fabrication of the Divertor Heat Removal Component	Dr TOKITANI, Masayuki	
[1467] [REGULAR POSTER TWIN] Challenges toward Improvement of Deuterium Injection Power in LHD Negative-Ion-Based NBIs	Prof. TSUMORI, Katsuyoshi	

[1472] [REGULAR POSTER TWIN] Status of the WEST Travelling Wave Array antenna design and results from the high power mock-up	RAGONA, Riccardo	
[1471] [REGULAR POSTER TWIN] Additive Manufacturing of a High Field Side Tokamak Lower Hybrid Current Drive Launcher from GRCop-84	Dr SELTZMAN, Andrew	
[1473] [REGULAR POSTER TWIN] An overview of thick tungsten coatings prepared by chemical vapor deposition and manufacture of relevant mockups	CHEN, ZHE	
[1470] [REGULAR POSTER TWIN] Accelerated lifetime tests of ITER-like tungsten monoblocks in Magnum-PSI	MORGAN, Thomas	
[1452] [REGULAR POSTER TWIN] Strong reversal of simple isotope scaling laws in tokamak edge turbulence	Ms BELLI, Emily Ann	
[1468] [REGULAR POSTER TWIN] WEST Actively Cooled Load Resilient Ion Cyclotron Resonance Heating Results	Dr HILLAIRET, Julien	
[654] Advanced positron annihilation studies of CuCrZr alloys for fusion technology	Prof. SLUGEN, Vladimir	
[1142] High power gyrotron development for advanced fusion devices	GANTENBEIN, Gerd	
[1054] Progress on NIO1 ion source and on energy recover tests	Dr CAVENAGO, Marco	
[836] Development of megawatt radiofrequency ion source for the neutral beam injector on HL-2A tokamak	Dr YAN, Longwen	
[1340] Implementation of the Spherical Tokamak MEDUSA-CR	Mr ARAYA-SOLANO, Luis	
[737] Global ion heating/transport during merging spherical tokamak formation	Dr TANABE, Hiroshi	
[759] Electron Beam Injection to Non-Inductively-Produced Spherical Tokamak Plasmas by Electron Bernstein Wave in LATE	TANAKA, Hitoshi	
[645] Exploration of the Equilibrium and Stability Properties of Spherical Tokamaks and Projection for MAST-U	BERKERY, John	
[1361] Divertor Heat Flux Broadening by Grassy ELMs	XU, Xueqiao	
[1081] Dynamics and Confinement of Ultralow-q Plasmas in the RFX-mod Device	ZUIN, Matteo	
[913] Emission in the ion cyclotron range of frequencies (ICE) on NSTX(-U)	Dr FREDRICKSON, E. D.	
[844] Plasma current ramp-up with 28 GHz second harmonic electron cyclotron wave in the QUEST spherical tokamak	ONCHI, Takumi	
[825] Quasilinear Turbulent Particle and Heat Transport Modeling with Development of Unique Saturation Rules for Insights into Profile Formation Mechanisms	Dr NARITA, Emi	
[958] Progress in understanding suprathreshold ion transport in a toroidal plasma through theoretical modeling and experiments in TORPEX	Dr BAQUERO-RUIZ, Marcelo	
[1178] Kinetic simulation of Zonal Flow in Aditya-U Tokamak	KULEY, Animesh	
[810] Turbulent transport of impurities in 3D devices	Dr GARCÍA-REGAÑA, José Manuel	
[826] Kinetic ion dynamics in the electron-scale turbulent transport: a key ingredient of multi-scale interactions in turbulence	Prof. WATANABE, Tomo-Hiko	
[1327] Interaction between magnetic geometry and turbulence in 3D global fluid simulations	Dr SERRE, Eric	
[925] Turbulent Transport of the W Ions in Tokamak Plasmas	Dr PALADE, Dragos Iustin	
[1148] A compact collisionless gyro-Landau-fluid multi-mode multi-scale turbulence transport modeling in tokamak plasmas	Prof. LI, Jiquan	
[1160] Impurity transport in collisionless trapped-particle-driven turbulence	LESUR, Maxime	

[1297] Technological exploitation of the JET nuclear environment: progress in neutron field characterisation and ITER materials irradiation	PACKER, Lee	
[847] Recent progress in the assessment of irradiation effects for in-vessel fusion materials: tungsten and copper alloys	TERENTYEV, Dmitry	
[1197] NNBI for ITER: Status of long pulses in deuterium at the test facilities BATMAN Upgrade and ELISE	WÜNDERLICH, Dirk	
[1331] Concept of the ICR plasma heating system for IGNITOR-like tokamak in relation to the Russian site	Mr SUBBOTIN, Mikhail	
[1264] Performance of High Heat Flux Test of Positive Ion Neutral Injector Ion Source Back Plate	Dr JANA, Mukti Ranjan	
[765] Upgraded design and modeling of prototype of the lithium divertor module of KTM tokamak	Mr ZHARKOV, Mikhail	
[1003] Active mitigation system for protecting solid and/or liquid divertor PFCs from transient high heat flux events in fusion reactors*	ONO, Masayuki	
[1245] Novel surface assisted volume negative ion source – concept to reality	Dr BANDYOPADHYAY, MAINAK	
[1180] DEVELOPMENT OF HIGH-VOLTAGE NEGATIVE ION BASED NEUTRAL BEAM INJECTOR FOR FUSION DEVICES	SOTNIKOV, Oleg	
[1288] First observations of the transition to the H-mode on the Globus-M2 tokamak using Doppler backscattering	YASHIN, Alexander	
[767] Control of fuel particle balance with the wall temperature modification and particle compression in the hot wall on all-metal plasma facing wall in QUEST	Prof. HANADA, Kazuaki	
[1254] Experimental Results on Current Drive by Lower Hybrid Fast Wave in VEST	Dr KIM, Sun-Ho	
[769] Multiple Plasmoid Formation and Ejection in TS-3U and TS-4U Merging Tokamaks Experiments	AKIMITSU, Moe	
[1311] Internal Reconnection Events in Versatile Experiment Spherical Torus	KIM, SeongCheol	
[1259] First Neutral Beam Heating Experiments in Versatile Experiment Spherical Torus	LEE, Kihyun	
[1047] Modeling of Basic Physics Issues in Toroidal Pinches and Tools for Performance Control	CAPPELLO, Susanna	
[870] Energy, momentum and particle balances of electrons in lower hybrid wave sustained plasmas on the TST-2 spherical tokamak	EJIRI, Akira	
[1077] Status of the RFX-mod2 Reversed Field Pinch upgrade	MARRELLI, Lionello	
[753] Control of Electron Acceleration Process during Merging Start-up of Spherical Tokamak	INOMOTO, Michiaki	
[659] Energy Confinement in a Spherical Tokamak Globus-M2 with a Toroidal Magnetic Field Approaching 0.8 T	KURSKIEV, Gleb	
[814] Machine learning accelerated models for scenario optimization on NSTX-U	BOYER, Mark	
[1032] Current carrying filaments in the L-mode, H-mode and ELMs in RFX-mod tokamak operation	SPOLAORE, Monica	
[730] Modification of the Magneto-Hydro-Dynamic Equilibrium by the Lower-Hybrid Wave Driven Fast Electrons on the TST-2 Spherical Tokamak	TSUJII, Naoto	
[1052] Ion heating and energy balance during magnetic reconnection events in the RFX-mod experiment	GOBBIN, Marco	

[1212] Study of fast ions redistribution and losses due to energetic particle modes in MAST	Mr CECCONELLO, Marco	
[1012] A phase-contrast-imaging core fluctuation diagnostic and first-principles turbulence modeling for JT-60SA	Dr CODA, Stefano	
[1112] Local gyro-Landau fluid simulations of toroidal drift wave modes and drift-resistive-inertial ballooning modes in tokamak plasmas	XU, Jianqiang	
[1362] Turbulence simulations and Braginskii-style transport coefficients based on high precision gyrokinetic Landau collision operator	HALLATSCHKE, Klaus	
[1015] A Sustainable High Power Density (SHPD) Tokamak to Enable a Compact Fusion Pilot Plant	SNYDER, Philip B.	
[632] Interplay between particle transport, zonal flows and zonal density in Dissipative Trapped-Electron Mode turbulence	LECONTE, MICHAEL	
[957] Collisional transport and poloidal asymmetry distribution of impurities in tokamak plasmas, with application to WEST	MAGET, Patrick	
[907] Influence of the impurities in the hybrid discharges with high power in JET ILW	IVANOVA-STANIK, Irena	
[1330] Influence of High Magnetic Field on Coulomb Collision and Plasma Transport	Prof. LI, Ding	
[841] Investigation of Turbulent Transport in the Inner core of JET H-mode Plasmas and Applications to ITER	Mr KUMAR, Neeraj	
[1219] Verification and Validation of Particle Simulation of Turbulent Transport in FRC	LIN, Zhihong	
[1322] Fast modelling of turbulent transport in fusion plasmas using neural networks	VAN DE PLASSCHE, Karel FELICI, Federico	
[636] Influence of radial electric field on stochastic diffusion in Wendelstein-type stellarators	TYKHYYI, Anton	
[1295] Investigation of Multi-scale Ion Temperature Gradient Instabilities and Turbulence in the ADITYA-U Tokamak	Mr SINGH, Amit Kumar	
[944] An Improved Equation-Free Method for Gyrokinetic Profile Evolution of Tokamak Plasmas	STURDEVANT, Benjamin J.	
[1026] Transport Simulations of Plasmas in Thailand Tokamak 1 and ITER with High Impurity Concentration Scenarios	POOLYARAT, Nopporn	
[1170] Theory of Electromagnetic Turbulence Driven Intrinsic Current	WANG, Lu	
[1143] Global gyrokinetic investigation of Alfvén instabilities and turbulence in tokamaks	BIANCALANI, Alessandro	
[993] Impurity behavior in JET-ILW plasmas fuelled with gas and/or with pellets: a comparative study with the transport code COREDIV	TELESCA, giuseppe	
[1536] Application of JADE V&V Capabilities to the New FENDL V3.2 BETA Release	FABBRI, Marco	TH/P7-32