



# 28th IAEA Fusion Energy Conference (FEC 2020)

## Friday 14 May 2021

### P7 Posters 7 (08:30-12:30)

[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 El-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	
[1473] [REGULAR POSTER TWIN] An overview of thick tungsten coatings prepared by chemical vapor deposition and manufacture of relevant mockups	CHEN, ZHE	
[1468] [REGULAR POSTER TWIN] WEST Actively Cooled Load Resilient Ion Cyclotron Resonance Heating Results	Dr HILLAIRET, Julien	
[1471] [REGULAR POSTER TWIN] Additive Manufacturing of a High Field Side Tokamak Lower Hybrid Current Drive Launcher from GRCop-84	Dr SELTZMAN, Andrew	
[1470] [REGULAR POSTER TWIN] Accelerated lifetime tests of ITER-like tungsten monoblocks in Magnum-PSI	MORGAN, Thomas	
[1472] [REGULAR POSTER TWIN] Status of the WEST Travelling Wave Array antenna design and results from the high power mock-up	RAGONA, Riccardo	
[1467] [REGULAR POSTER TWIN] Challenges toward Improvement of Deuterium Injection Power in LHD Negative-Ion-Based NBIs	Prof. TSUMORI, Katsuyoshi	
[1466] [REGULAR POSTER TWIN] Advanced Multi-Step Brazing (AMSB) for Fabrication of the Divertor Heat Removal Component	Dr TOKITANI, Masayuki	
[1465] [REGULAR POSTER TWIN] Materials and Components for the DEMO Divertor	Prof. NEU, Rudolf	
[1474] [REGULAR POSTER TWIN] 100 seconds negative ion accelerations for JT-60SA negative-ion-based neutral beam injector	Dr KASHIWAGI, Mieko	

<b>[1469] [REGULAR POSTER TWIN] Plasma Exhaust and Divertor Designs in Japan and Europe Broader Approach, DEMO Design Activity</b>	Dr ASAKURA, Nobuyuki	
<b>[1453] [REGULAR POSTER TWIN] Improved prediction scheme for turbulent transport by combining machine learning and first-principle simulation</b>	Dr NUNAMI, Masanori	
<b>[1452] [REGULAR POSTER TWIN] Strong reversal of simple isotope scaling laws in tokamak edge turbulence</b>	Ms BELLI, Emily Ann	
<b>[1451] [REGULAR POSTER TWIN] Effects of Magnetic Islands on Plasma Confinement and Self-driven Current Generation</b>	Dr WANG, Weixing	
<b>[1449] [REGULAR POSTER TWIN] How the narrow Edge—Scrape-Off Layer Interface Self-Organises Turbulence Globally</b>	DIF-PRADALIER, Guilhem	
<b>[1448] [REGULAR POSTER TWIN] Spontaneous ITB formation in gyrokinetic flux-driven ITG/TEM turbulence</b>	Prof. IMADERA, Kenji	
<b>[993] Impurity behavior in JET-ILW plasmas fuelled with gas and/or with pellets: a comparative study with the transport code COREDIV</b>	TELESCA, giuseppe	
<b>[1143] Global gyrokinetic investigation of Alfvén instabilities and turbulence in tokamaks</b>	BIANCALANI, Alessandro	
<b>[1170] Theory of Electromagnetic Turbulence Driven Intrinsic Current</b>	WANG, Lu	
<b>[1026] Transport Simulations of Plasmas in Thailand Tokamak 1 and ITER with High Impurity Concentration Scenarios</b>	POOLYARAT, Nopporn	
<b>[944] An Improved Equation-Free Method for Gyrokinetic Profile Evolution of Tokamak Plasmas</b>	STURDEVANT, Benjamin J.	
<b>[1295] Investigation of Multi-scale Ion Temperature Gradient Instabilities and Turbulence in the ADITYA-U Tokamak</b>	Mr SINGH, Amit Kumar	
<b>[636] Influence of radial electric field on stochastic diffusion in Wendelstein-type stellarators</b>	TYKHYYI, Anton	
<b>[1322] Fast modelling of turbulent transport in fusion plasmas using neural networks</b>	VAN DE PLASSCHE, Karel FELICI, Federico	
<b>[1219] Verification and Validation of Particle Simulation of Turbulent Transport in FRC</b>	LIN, Zhihong	
<b>[841] Investigation of Turbulent Transport in the Inner core of JET H-mode Plasmas and Applications to ITER</b>	Mr KUMAR, Neeraj	
<b>[1330] Influence of High Magnetic Field on Coulomb Collision and Plasma Transport</b>	Prof. LI, Ding	
<b>[907] Influence of the impurities in the hybrid discharges with high power in JET ILW</b>	IVANOVA-STANIK, Irena	
<b>[957] Collisional transport and poloidal asymmetry distribution of impurities in tokamak plasmas, with application to WEST</b>	MAGET, Patrick	
<b>[632] Interplay between particle transport, zonal flows and zonal density in Dissipative Trapped-Electron Mode turbulence</b>	LECONTE, MICHAEL	
<b>[1015] A Sustainable High Power Density (SHPD) Tokamak to Enable a Compact Fusion Pilot Plant</b>	SNYDER, Philip B.	
<b>[1362] Turbulence simulations and Braginskii-style transport coefficients based on high precision gyrokinetic Landau collision operator</b>	HALLATSCHEK, Klaus	
<b>[1112] Local gyro-Landau fluid simulations of toroidal drift wave modes and drift-resistive-inertial ballooning modes in tokamak plasmas</b>	XU, Jianqiang	

<b>[1012] A phase-contrast-imaging core fluctuation diagnostic and first-principles turbulence modeling for JT-60SA</b>	Dr CODA, Stefano	
<b>[1047] Modeling of Basic Physics Issues in Toroidal Pinches and Tools for Performance Control</b>	CAPPELLO, Susanna	
<b>[1160] Impurity transport in collisionless trapped-particle-driven turbulence</b>	LESUR, Maxime	
<b>[1148] A compact collisionless gyro-Landau-fluid multi-mode multi-scale turbulence transport modeling in tokamak plasmas</b>	Prof. LI, Jiquan	
<b>[925] Turbulent Transport of the W Ions in Tokamak Plasmas</b>	Dr PALADE, Dragos Iustin	
<b>[1327] Interaction between magnetic geometry and turbulence in 3D global fluid simulations</b>	Dr SERRE, Eric	
<b>[826] Kinetic ion dynamics in the electron-scale turbulent transport: a key ingredient of multi-scale interactions in turbulence</b>	Prof. WATANABE, Tomo-Hiko	
<b>[810] Turbulent transport of impurities in 3D devices</b>	Dr GARCÍA-REGAÑA, José Manuel	
<b>[1178] Kinetic simulation of Zonal Flow in Aditya-U Tokamak</b>	KULEY, Animesh	
<b>[958] Progress in understanding suprathreshold ion transport in a toroidal plasma through theoretical modeling and experiments in TORPEX</b>	Dr BAQUERO-RUIZ, Marcelo	
<b>[825] Quasilinear Turbulent Particle and Heat Transport Modeling with Development of Unique Saturation Rules for Insights into Profile Formation Mechanisms</b>	Dr NARITA, Emi	
<b>[1212] Study of fast ions redistribution and losses due to energetic particle modes in MAST</b>	Mr CECCONELLO, Marco	
<b>[1052] Ion heating and energy balance during magnetic reconnection events in the RFX-mod experiment</b>	GOBBIN, Marco	
<b>[730] Modification of the Magneto-Hydro-Dynamic Equilibrium by the Lower-Hybrid Wave Driven Fast Electrons on the TST-2 Spherical Tokamak</b>	TSUJII, Naoto	
<b>[1259] First Neutral Beam Heating Experiments in Versatile Experiment Spherical Torus</b>	LEE, Kihyun	
<b>[1311] Internal Reconnection Events in Versatile Experiment Spherical Torus</b>	KIM, SeongCheol	
<b>[844] Plasma current ramp-up with 28 GHz second harmonic electron cyclotron wave in the QUEST spherical tokamak</b>	ONCHI, Takumi	
<b>[913] Emission in the ion cyclotron range of frequencies (ICE) on NSTX(-U)</b>	Dr FREDRICKSON, E. D.	
<b>[1081] Dynamics and Confinement of Ultralow-q Plasmas in the RFX-mod Device</b>	ZUIN, Matteo	
<b>[1361] Divertor Heat Flux Broadening by Grassy ELMs</b>	XU, Xueqiao	
<b>[645] Exploration of the Equilibrium and Stability Properties of Spherical Tokamaks and Projection for MAST-U</b>	BERKERY, John	
<b>[759] Electron Beam Injection to Non-Inductively-Produced Spherical Tokamak Plasmas by Electron Bernstein Wave in LATE</b>	TANAKA, Hitoshi	
<b>[737] Global ion heating/transport during merging spherical tokamak formation</b>	Dr TANABE, Hiroshi	
<b>[1340] Implementation of the Spherical Tokamak MEDUSA-CR</b>	Mr ARAYA-SOLANO, Luis	
<b>[1032] Current carrying filaments in the L-mode, H-mode and ELMs in RFX-mod tokamak operation</b>	SPOLAORE, Monica	
<b>[814] Machine learning accelerated models for scenario optimization on NSTX-U</b>	BOYER, Mark	
<b>[659] Energy Confinement in a Spherical Tokamak Globus-M2 with a Toroidal Magnetic Field Approaching 0.8 T</b>	KURSKIEV, Gleb	

<b>[753] Control of Electron Acceleration Process during Merging Start-up of Spherical Tokamak</b>	INOMOTO, Michiaki	
<b>[1077] Status of the RFX-mod2 Reversed Field Pinch upgrade</b>	MARRELLI, Lionello	
<b>[870] Energy, momentum and particle balances of electrons in lower hybrid wave sustained plasmas on the TST-2 spherical tokamak</b>	EJIRI, Akira	
<b>[769] Multiple Plasmoid Formation and Ejection in TS-3U and TS-4U Merging Tokamaks Experiments</b>	AKIMITSU, Moe	
<b>[1254] Experimental Results on Current Drive by Lower Hybrid Fast Wave in VEST</b>	Dr KIM, Sun-Ho	
<b>[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</b>	Prof. HANADA, Kazuaki	
<b>[1288] First observations of the transition to the H-mode on the Globus-M2 tokamak using Doppler backscattering</b>	YASHIN, Alexander	
<b>[1180] DEVELOPMENT OF HIGH-VOLTAGE NEGATIVE ION BASED NEUTRAL BEAM INJECTOR FOR FUSION DEVICES</b>	SOTNIKOV, Oleg	
<b>[1245] Novel surface assisted volume negative ion source – concept to reality</b>	Dr BANDYOPADHYAY, MAINAK	
<b>[1003] Active mitigation system for protecting solid and/or liquid divertor PFCs from transient high heat flux events in fusion reactors*</b>	ONO, Masayuki	
<b>[765] Upgraded design and modeling of prototype of the lithium divertor module of KTM tokamak</b>	Mr ZHARKOV, Mikhail	
<b>[1264] Performance of High Heat Flux Test of Positive Ion Neutral Injector Ion Source Back Plate</b>	Dr JANA, Mukti Ranjan	
<b>[1331] Concept of the ICR plasma heating system for IGNITOR-like tokamak in relation to the Russian site</b>	Mr SUBBOTIN, Mikhail	
<b>[836] Development of megawatt radiofrequency ion source for the neutral beam injector on HL-2A tokamak</b>	Dr YAN, Longwen	
<b>[1054] Progress on NIO1 ion source and on energy recover tests</b>	Dr CAVENAGO, Marco	
<b>[1142] High power gyrotron development for advanced fusion devices</b>	GANTENBEIN, Gerd	
<b>[654] Advanced positron annihilation studies of CuCrZr alloys for fusion technology</b>	Prof. SLUGEN, Vladimir	
<b>[1197] NNBI for ITER: Status of long pulses in deuterium at the test facilities BATMAN Upgrade and ELISE</b>	WÜNDERLICH, Dirk	
<b>[847] Recent progress in the assessment of irradiation effects for in-vessel fusion materials: tungsten and copper alloys</b>	TERENTYEV, Dmitry	
<b>[1297] Technological exploitation of the JET nuclear environment: progress in neutron field characterisation and ITER materials irradiation</b>	PACKER, Lee	
<b>[1536] Application of JADE V&amp;V Capabilities to the New FENDL V3.2 BETA Release</b>	FABBRI, Marco	TH/P7-32