



# 27th IAEA Fusion Energy Conference - IAEA CN-258

## Friday, October 26, 2018

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

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[686] Model Development and Electromagnetic Analysis of Vertical Displacement Event for CFETR Helium Cooled Solid Blanket	Prof. CHEN, Hongli	
[345] Overview of Recent Gyrotron R&D towards DEMO within EUROfusion Work Package Heating and Current Drive	GANTENBEIN, Gerd	
[618] Thermo-structural and heat load analysis of SST-1 Superconducting coils	Mr TOMAR, Arvind	
[295] the ITER plasma current termination phase: physics constraints on control	Dr POLI, Francesca	
[590] Observation of Heat Load on the Castellated Tungsten Block by Back-Scattered Particles from Intentionally Misaligned Protruding Edge	Dr HONG, Suk-Ho	
[593] Optimising the ITER 15MA DT Baseline Scenario by Exploiting a Self-Consistent Free-Boundary Core-edge-SOL Workflow in IMAS	Dr KOECHL, Florian	
[191] JET Upgraded Diagnostic Capabilities and Scientific Exploitation in Support of Deuterium-Tritium Operation	Dr FIGUEIREDO, Joao	
[275] Thermal-hydraulic Characteristics Study of Superconducting Magnets of SST-1	Mr PRASAD, Upendra	
[528] Design and Thermal Fluid Structure Interaction Analysis of Liquid Nitrogen Cryostat of Cryogenic Molecular Sieve Bed Adsorber for Hydrogen Isotopes Removal System	Ms V., Gayathri	
[442] Characteristics of Asymmetric (low-field-side and high-field side) Divertor Detachment in KSTAR L-mode Plasmas	Mr PARK, Jae-Sun	
[440] ELM Suppression and Internal Transport Barrier Formation by Krypton Seeding in KSTAR Plasmas	Mr JANG, Juhyeok Jang	
[444] Experimental observation and modelling of high-Z impurity transport by tungsten powder injection in KSTAR plasmas	Mr SONG, Inwoo	
[100] Ion Inertial Effects on Three-dimensional Filament Dynamics	Dr HASEGAWA, Hiroki	
[33] Comparative analysis of the SOL properties for the various magnetic configurations proposed for the DEMO divertor	Dr PERICOLI RIDOLFINI, Vincenzo	
[31] The Influence of Toroidal Magnetic Field Growth on Plasma Performance in the Spherical Tokamak Globus-M/-M2	Dr MINAEV, Vladimir	
[555] Evolution of locked mode under the existence of non-axisymmetric fields in KSTAR	Dr KIM, Jayhyun	
[91] Effects of Reconnection Downstream Conditions on Electron Parallel Acceleration during Merging Start-up of Spherical Tokamak	Prof. INOMOTO, Michiaki	
[234] Progress in design of DEMO-FNS hybrid facility	SHPANSKIY, Yuri	
[194] Synthetic edge and SOL diagnostics - a bridge between experiments and theory	Dr NIELSEN, Anders Henry	
[688] Key Considerations in the Power Extraction from Fusion Reactors	Mr PRAJAPATI, Piyush	

<b>[133] Collisional Merging of a Field-Reversed Configuration in the FAT-CM Device</b>	Prof. ASAI, Tomohiko	
<b>[494] Power Coupling of Lower Hybrid Fast Wave in VEST</b>	Dr KIM, Sun-Ho	
<b>[491] Velocity Profile and modulation frequency of Ions in a Magnetized Plasma Sheath using kinetic trajectory simulation method</b>	Dr KHANAL, Raju	
<b>[493] Timing and Synchronization for Integrated Operation of Large Volume Plasma Device</b>	Mr SUGANDHI, Ritesh	
<b>[403] Simulation Study of the Impurity Radiation in the Quasi-Snowfalke Divertor with Ne Seeding for CFETR</b>	Prof. YE, Minyou	
<b>[377] Multi-physics modeling of the long-term evolution of plasma-exposed surfaces</b>	CANIK, John	
<b>[393] Intrinsic Toroidal Rotation for Ohmic L-mode Plasmas in KSTAR</b>	Dr LEE, Sang Gon	
<b>[88] A toroidal confinement facility study and eventual experimental device to investigate a range of liquid metal divertor and first-wall concepts</b>	Mr BROWN, Thomas	
<b>[586] Maintenance experience of 315kW Electrical Motor of Helium screw compressor in 1.3kW Helium Refrigerator/Liquefier Plant</b>	Mr CHRISTIAN, Dikens	
<b>[518] The effect of electron cyclotron heating on thermal and fast-ions transport in high beta-poloidal discharges at KSTAR</b>	Dr YOON, Si-Woo	
<b>[626] Thermal Diffusivity Measurement of Functional &amp; Structural Materials for Fusion Blanket Application</b>	Mr SHRIVASTAVA, Aroh	
<b>[171] Negative ion beam source physics as a complex system: identification of main processes and key interdependence</b>	Dr ANTONI, Vanni	
<b>[2] Development of a plasma scenario for the EU-DEMO: current activities and perspectives</b>	Dr SICCINIO, Mattia	
<b>[658] Time Resolved Triton Burnup Measurements Using the Scintillating Fiber Detector on KSTAR</b>	Mr JO, Jungmin	
<b>[11] Development of DEMO-FNS fueling systems and modeling hydrogen isotopes distribution via «FC-FNS» simulation code</b>	Dr ANANYEV, Sergey	
<b>[326] Assessment of Alternative Divertor Configurations as an Exhaust Solution for DEMO</b>	Dr REIMERDES, Holger	
<b>[206] Progresses at CEA on EU DEMO reactor cryomagnetic system design activities and associated R&amp;D</b>	Dr ZANI, Louis	
<b>[664] Development of a Prototype Collaborative Robot for Fusion Remote Handling Applications</b>	Mr RASTOGI, Naveen	
<b>[666] The Scrape-off Layer plasma transport physics simulation activity for Indian tokamaks Aditya and SST-1</b>	Dr SHARMA, Devendra	
<b>[129] Conceptual Design of a Compact Helical Fusion Reactor FFHR-c1 for the Early Demonstration of a Year-long Electric Power Generation</b>	Dr GOTO, Takuya	
<b>[318] R&amp;D for reliable disruption mitigation in ITER</b>	Dr LEHNEN, Michael	
<b>[310] Pump Characterization of 80 K Liquid Nitrogen Booster System for SST-1</b>	Mr MAHESURIA, Gaurang	
<b>[314] Bifurcation of Perpendicular Rotation and Field Penetration at the Transition to RMP-induced ELM-crash Suppression</b>	Dr LEE, Jaehyun	
<b>[366] The physics basis for a solution to the power and particle exhaust problem of a next step device</b>	Dr WISCHMEIER, Marco	
<b>[365] Assessment and optimization of the cavity thermal performance for the European Continuous Wave gyrotrons</b>	Prof. SAVOLDI, Laura	

<b>[381] Integrated Modeling of Core, Edge Pedestal and Scrape-Off-Layer for High Beta<sub>N</sub> Steady-State Scenarios on DIII-D</b>	Dr BUTTERY, Richard J.	
<b>[574] Error field experiment and analysis in SST-1</b>	Mr DUTTA, Someswar	
<b>[255] SST-1 Cryogenics Requirements and the Way Forward</b>	Dr TANNA, Vipulkumar	
<b>[730] Implementation of the Spherical Tokamak MEDUSA-CR: Stage 1</b>	Prof. MORA-MELÉNDEZ, Jaime	
<b>[737] Conversion of electrostatic Bernstein waves in the SCR-1 Stellarator using a full wave code</b>	Dr VARGAS-BLANCO, Ivan	
<b>[670] Design of the TF/PF Bus Bar lay out and its connections with Current Feeder System of SST1 Tokamak</b>	Mr DOSHI, bharatkumar	
<b>[766] Early definition of the maintenance plan is essential to achieve an economic EU DEMO</b>	Mr CROFTS, Oliver	
<b>[466] Continuum Gyrokinetic Simulations of NSTX SOL Turbulence with Sheath-Limited Model Geometries</b>	Mr HAKIM, Ammar	
<b>[161] Exact conservative solutions of fluid models for the scrape-off layer as the ancestors of blobs?</b>	Prof. BIZARRO, João P. S.	
<b>[9] Implications of Uncertainties on the European DEMO design</b>	Dr LUX, Hanni	
<b>[356] Self-consistent modelling of a liquid metal pool-type divertor</b>	ZANINO, roberto	
<b>[214] Design optimization of Helium cooling systems for Indian LLCB TBM</b>	Mr YADAV, Brijesh Kumar	
<b>[763] Pressure balance in a low collisionality tokamak scrape-off layer</b>	Mr CHURCHILL, Randy	
<b>[676] Plasma transport in toroidally discontinuous limiter generated 3D SOL configurations of Aditya tokamak</b>	Mr SAHOO, Bibhu Prasad	
<b>[54] SOL/Divertor Plasma Simulation of Diverging Magnetic Field Configurations for Advanced Divertors</b>	Dr TOGO, Satoshi	
<b>[51] Advanced Assembly Technology of the Superconducting Coils in JT-60SA Tokamak</b>	Dr SHIBAMA, Yusuke	
<b>[110] Simulation of cross-separatrix edge plasma transport with the continuum gyrokinetic code COGENT</b>	Dr DORF, Mikhail	
<b>[428] Electron Impact Excitation of W<sup>40+</sup> to W<sup>43+</sup> Ions: Cross Section and Polarization</b>	Ms SHUKLA, Neelam	
<b>[304] Wide divertor heat-flux width in ITER from self-organization between the neoclassical and turbulent transports across the separatrix surface</b>	Dr CHANG, Choongseok	
<b>[240] Performance assessment of tightly-baffled long-leg divertor geometries in the ARC reactor concept</b>	Mr WIGRAM, Michael	
<b>[750] Experimental observations of the plasma shape effect on the RMP-ELM coupling for optimization of the KSTAR ELM-crash control</b>	Dr JEON, YoungMu	
<b>[756] Solenoid-free start-up utilizing outer PF coils with the help of EBW pre-ionization and change of external inductance in VEST</b>	Mr LEE, HyunYeong	
<b>[758] Simulation of Beryllium Erosion and Surface Damage Under ITER-like Transient Plasma Heat Loads</b>	Dr KUPRIYANOV, Igor	
<b>[229] First Analysis of the Updated ITPA Global H-Mode Confinement Database</b>	Dr VERDOOLAEGE, Geert	
<b>[606] Internal Structure of MHD Fluctuations for Various Current Density Profiles during Current Rise Phase of Ohmic Discharge in VEST</b>	Mr YANG, Jeong-hun	
<b>[399] Simulations of Tokamak Boundary Plasma Turbulent Transport</b>	XU, Xueqiao	

<b>[48] Progress in Design and Fabrication of Current and Helium Feeding System for JT-60SA Superconducting Coils</b>	Mr KIZU, Kaname	
<b>[49] Non-Invasive Plasma Density Measurement in a 13.56 MHz Magnetized Capacitive Coupled RF discharge</b>	Ms BINWAL, shikha	
<b>[42] Implementation of 3-D effects of the ITER plasma-facing components in a 2-D real-time model-based approach for wall heat flux control on ITER</b>	Dr ANAND, Himank	
<b>[40] Development of Capacitively-Coupled Compline Antennas for Current Drive in Tokamaks</b>	Prof. TAKASE, Yuichi	
<b>[508] Stability, Transport, and Active MHD Mode Control Analysis of KSTAR High Performance Plasmas Supporting Disruption Avoidance</b>	Dr PARK, Young-Seok	
<b>[486] Effects of Lithium Coating of Chamber Wall on the STOR-M Tokamak Discharges</b>	Prof. XIAO, Chijin	
<b>[482] Advances in modelling of plasma pedestal behaviour and ELM control in ITER reference plasma scenarios</b>	Dr LOARTE, Alberto	
<b>[474] Operational Results and Troubleshooting in Current Feeder System for SST-1</b>	Mr GARG, Atul	
<b>[479] Recent progress in developing Gamma Spectrometer in ITER</b>	Dr GIN, Dmitry	
<b>[729] Robust Burn Control in ITER Under Deuterium-Tritium Concentration Variations in the Fueling Lines</b>	Prof. SCHUSTER, Eugenio	
<b>[167] Poloidal Flows, Asymmetries and Multiscale Organisation in Interplaying Core-edge-SOL Turbulent Plasmas</b>	Dr ZARZOSO, David	
<b>[685] Preventive measures to avoid electrical arcing incidences in SST-1 PF current leads</b>	Ms ROY, Swati	
<b>[708] Development and experiment of PbLi facilities for fusion nuclear technology</b>	Dr CHEN, Dehong	