



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

## Wednesday, October 24, 2018

### P3 Posters (8:30 AM - 12:30 PM)

[id] title	presenter	board
[680] Effect of sorbent selection and geometrical arrangement of cryopanel on pumping speed of cryopump	Ms GANGRADEY, Ranjana	
[99] Study of locking mechanism of locked-mode-like instability in helical plasmas	Dr TAKEMURA, Yuki	
[95] Particle balance investigation with the combination of rate equations of hydrogen state and hydrogen barrier model in long duration discharges on all-metal PFW QUEST	Prof. HANADA, Kazuaki	
[343] Studies on high temperature vacuum brazing of Tungsten to Tungsten alloy materials for DEMO divertor application	Dr KONGKHAM, Premjit Singh	
[719] Recent progresses on the RMP researches towards active control of tearing mode in the J-TEXT tokamak	Prof. DING, Yonghua	
[290] The Potential For Retention of Spin Polarization To Raise Fusion Reactivity	Dr SMITH, Sterling	
[521] The Advanced Tokamak Path to a Compact Net Electric Pilot Plant	Dr PARK, Jin Myung	
[611] Extent of Tritium Contamination of Helium Circuit in a Fusion Reactor-probable scenarios	Mr SHUKLA, Vinit	
[103] Neutron flux distributions in the LHD torus hall evaluated by an imaging plate technique in the first campaign of deuterium plasma experiment	Dr KOBAYASHI, Makoto	
[107] Isotope effects on confinement and turbulence in ECRH plasma of LHD	Dr TANAKA, Kenji	
[39] Core transport improvement in stable detachment with RMP application to the edge stochastic layer of LHD	Dr KOBAYASHI, Masahiro	
[34] Surface Characterization of Li coatings and their interaction with plasmas for fusion applications via Ion Beam Analysis Techniques	Dr BEDOYA, Felipe	
[339] RGA Analysis and Surface Analysis of SST-1 Graphite Tiles in High Temperature Vacuum Baking	Mr ARUMUGAM, ArunPrakash	
[644] Development of HINEG and its experimental campaigns	Prof. JIANG, Jieqiong	
[332] Neutronics Experiment for Design Validation of Indian TBM Shield Module	Mr SWAMI, H. L.	
[90] Scaling Study of Reconnection/ Merging Heating of Spherical Tokamak Plasmas for Direct Access to Burning Plasma	Prof. ONO, Yasushi	
[92] Dependence of RMP penetration threshold on plasma parameters and ion species in helical plasmas	Dr WATANABE, Kiyomasa	
[97] Characterization of Isotope Effect on Confinement of Dimensionally Similar NBI-Heated Plasmas in LHD	Prof. YAMADA, Hiroshi	
[746] Study on production and extraction of negative ion impurity ions in a Cesium negative ion source	Mrs MAGESH, Bharathi	
[550] Energy differential and displacement damage cross section of DT neutron induced reactions on fusion reactor materials (Fe, Cr & W)	Mr RAJPUT, Mayank	
[552] Application of ANSYS FLUENT MHD Code for Liquid Metal MHD Studies	Mrs PATEL, Anita	

<b>[143] A Multi-Parameter Optimization technique considering temporal and spatial variation in nuclear response of materials in Fusion devices</b>	Ms KANTH, Priti	
<b>[682] Advanced capabilities of multi-functional calculation program SuperMC3.2 for complex nuclear system</b>	Dr HAO, Lijuan	
<b>[130] Experimental analysis of self-organized structure and transport on magnetospheric plasma device RT-1</b>	Dr NISHIURA, Masaki	
<b>[704] Real-Time Feedback Control System for Plasma Position Stabilisation in ADITYA-U Tokamak</b>	Mr KUMAR, ROHIT	
<b>[656] Radiation Properties of the Metal Structural Materials during Low-Temperature Damaging Irradiation</b>	Prof. CHERNOV, Viacheslav	
<b>[620] Novel Method for Determination of Tritium Depth Profiles in Metallic Samples</b>	Dr PAJUSTE, Elina	
<b>[175] Fully Non-inductive 2nd Harmonic Electron Cyclotron Current Ramp-up with Focused Polarized Beams in the QUEST Spherical Tokamak</b>	Dr IDEI, Hiroshi	
<b>[180] The Configuration Dependence of Isotope Effects on Turbulence System in Heliotron J</b>	Dr OHSHIMA, Shinsuke	
<b>[650] Evaluation of Beam Properties of a Negative Hydrogen Source by Doppler Shift Spectroscopy</b>	Mr DEKA, Arnab Jyoti	
<b>[325] Thermal Performance Analysis of Al<sub>2</sub>O<sub>3</sub> - Water Nanofluid as a Coolant in Nuclear Applications</b>	Mr MUKHERJEE, Sayantan	
<b>[78] Electron Bernstein Wave Heating and Current Drive with Multi-Electron Cyclotron Resonances During Non-inductive Start-up on LATE</b>	Prof. TANAKA, Hitoshi	
<b>[205] Neutronic analysis of IFMIF-DONES Test Cell cooling system</b>	Mr STANKUNAS, Gediminas	
<b>[77] Rapid Radial Propagation of Momentum Change and Flow Oscillation Associated with a Pellet Injection</b>	Dr TOKUZAWA, Tokihiko	
<b>[71] Synergistic Effect of Impurity and Hydrogen Gas Puffs on Plasma Detachment in the GAMMA 10/PDX Tandem Mirror</b>	Dr EZUMI, Naomichi	
<b>[668] Effect of Simulated Post Weld Heat Treatment on the Microstructure and Mechanical Properties of IN-RAFM Steel</b>	Mr SASMAL, Chandra Sekhar	
<b>[665] Thermo-hydraulic Analysis of Forced Flow Helium Cooled Cryopanel of Cryopump Using Venecia Code</b>	Mr MUKHERJEE, Samiran Shanti	
<b>[697] Development of Technology for Fabrication of Prototype Ion Extraction Grid for Fusion Research</b>	Dr JANA, Mukti Ranjan	
<b>[699] Development of RF based capacitively-coupled plasma system for deposition of tungsten nano layers on graphite</b>	Mr CHAUHAN, Sachin S.	
<b>[545] Neutron Irradiation Impact on ITER Grade Insulating Material</b>	Dr SHAH, Sejal	
<b>[549] Conceptual design of Neutron Activation System for IN-LLCB TBM</b>	Ms TIWARI, Shailja	
<b>[120] Experimental Studies of Plasmoid Reconnection for Closed Flux Current Generated by Coaxial Helicity Injection on HIST</b>	Prof. NAGATA, Masayoshi	
<b>[176] Design Progress of Advanced Fusion Neutron Source for JA/DEMO Fusion Reactor</b>	Dr OCHIAI, Kentaro	
<b>[311] Artificial Neural Network for Yield Strength Prediction of Irradiated RAFM Steels</b>	Mr ABHISHEK, Agraj	
<b>[316] Modification in LHCD DAC System to Incorporate Measurement of RF Power</b>	Mr JOSHI, Rameshkumar	

<b>[364] Overview of the Methods developed for Fission Plants Safety relevant to the Safety of Fusion Facilities</b>	Dr PANAYOTOV, Dobromir	
<b>[607] Tritium Handling and Recovery System for Accelerator Based 14-MeV Neutron Generator</b>	Mrs DUBEY, Deepti	
<b>[66] Plasma current generation and ramp-up by the lower hybrid wave using outboard-launch and top-launch antennas on the TST-2 spherical tokamak</b>	Dr EJIRI, Akira	
<b>[67] Multiple turbulent plasma states in the H-mode transition on JT-60U</b>	Dr KAMIYA, Kensaku	
<b>[69] Effect of deuterium plasmas on carbon impurity transport in the edge stochastic magnetic field layer of Large Helical Device</b>	Dr OISHI, Tetsutarou	
<b>[733] Overview of the NSTX-U Recovery Project Physics and Engineering Design</b>	Dr GERHARDT, Stefan	
<b>[736] Novel Approach of Pulsed-Glow Discharge Wall Conditioning in ADITYA Upgrade Tokamak</b>	Mr JADEJA, Kumarpalsinh	
<b>[738] Ion Irradiation Induced Modifications in Tungsten Foils</b>	Dr ATTRI, Asha	
<b>[632] Effect of magnetic field on the corrosion behavior of Indian RAFMS in liquid Pb-Li</b>	Mrs CHAKRABORTY, Poulami	
<b>[636] Er<sub>2</sub>O<sub>3</sub> Coating by Multilayer Metallic Sputtering and Intermediate Oxidation Approach</b>	Dr RAYJADA, Pratipalsinh A.	
<b>[638] 3MW Dual Output High Voltage Power Supply Operation: Results for Accuracy, Stability and Protection Test</b>	Mr PATEL, AMITKUMAR	
<b>[461] Global supply of tritium for fusion R&amp;D</b>	Mr COLEMAN, Matti	
<b>[160] Investigation of fine structure formation of guide field reconnection during merging plasma startup of spherical tokamak in TS-3U</b>	Dr TANABE, Hiroshi	
<b>[679] Development and Qualification of Passive Active Multijunction (PAM) Launcher for LHCD System of ADITYA -Upgrade Tokamak</b>	Mr JAIN, Yogesh	
<b>[263] Multiphysics approach to plasma neutron source modelling at the tokamak JET</b>	Mr ŠTANCAR, Žiga	
<b>[675] Pellet fuelling prospects and injector system for Aditya-U tokamak</b>	Dr MISHRA, Jyoti Shankar	
<b>[62] Dispersion Strengthened Copper Alloys Produced by Mechanical Alloying and Hot Isostatic Pressing for Divertor Application</b>	Dr NOTO, Hiroyuki	
<b>[63] Effect of magnetic field structure on electron internal transport barrier and its role for the barrier formation in Heliotron J</b>	Dr MINAMI, Takashi	
<b>[115] Investigation of magnetic topology on spontaneous transition phenomena for high beta plasma of Large Helical Device</b>	Dr SUZUKI, Yasuhiro	
<b>[111] New approach to the control of particle recycling using divertor pumping in LHD</b>	Dr MOTOJIMA, Gen	
<b>[429] Status of Studies of Pulsed Heat Load Influence on Tungsten at BETA Facility and Station of SR Scattering "Plasma" in BINP</b>	Dr ALEKSEY, Arakcheev	
<b>[226] 2D and 3D modelling of JT-60SA for disruptions and plasma start-up</b>	Prof. DE TOMMASI, Gianmaria	
<b>[223] The DEMO fuel cycle – novel technologies for tritium inventory reduction</b>	Dr DAY, Christian	
<b>[724] Design and Simulation Studies of Calorimetric Dummy Load for Gyrotron System</b>	Mr PATEL, Axat Mr SHAH, Maulik	
<b>[600] Performance of 14-MeV Neutron Generator at IPR</b>	Mr VALA, SUDHIRSINH	
<b>[46] Contribution of fusion energy to low-carbon development under the Paris Agreement and accompanying uncertainties</b>	Dr GI, Keii	

<b>[47] Safety factor profile control with reduced CS flux consumption during plasma current ramp-up phase using reinforcement learning technique</b>	Dr WAKATSUKI, Takuma	
<b>[45] Fluctuation suppression by the potential formation in GAMMA 10/PDX plasma</b>	Dr YOSHIKAWA, Masayuki	
<b>[41] Energetic-ion Confinement Studies by using Comprehensive Neutron Diagnostics in the Large Helical Device</b>	Dr OGAWA, Kunihiro	
<b>[748] Tungsten Fuzz Formation on the Nitrided Tungsten Surface</b>	Mr TULENBERGENOV, Timur	
<b>[767] New Fusion Facilities at UKAEA – FTF and H3AT</b>	Mr WALTERS, Colin	
<b>[182] A Concept of Self-Cooled Breeding Blanket with Advanced Molten Salt Flnak for High-Efficiency and Long-Life Operation</b>	Mr YAGI, Juro	
<b>[583] Structural analysis for strength and fatigue life of half coupling weldment for large cooling water pipes</b>	Mr BHATT, Kunal	
<b>[678] Performance of Transmission Line System at <math>42\pm 0.2</math>GHz for an Indigenous Gyrotron System</b>	Ms BHATT, Pujita	
<b>[554] Structural and Vibrational Properties of Lead-Lithium Alloys: A First Principles Study</b>	Dr KHAMBHOLJA, Shyamkumar	
<b>[363] Deuteron Beam Commissioning of the Linear IFMIF Prototype Accelerator Source and LEBT</b>	Dr SUGIMOTO, Masayoshi	