



# 25th IAEA Fusion Energy Conference - IAEA CN-221

## Thursday, October 16, 2014

**Poster 5: P5 - Green 8-9 (8:30 AM - 12:30 PM)**

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[817] Negative Triangularity Tokamak: Stability Limits and Perspectives as Fusion Energy System	Dr MEDVEDEV, Sergey	
[593] Review of the Safety Concept for Fusion Reactor Concepts and Transferability of the Nuclear Fission Regulation to Potential Fusion Power Plants	Mr HERB, Joachim	
[196] In-Situ Monitoring Hydrogen Isotope Retention in ITER First Wall	Dr MUKHIN, Eugene	
[195] Comparative Study of High Triangularity H-Mode Plasma Performance in JET with Be/W Wall and CFC Wall	Dr DE LA LUNA, Elena	
[190] Combined Magnetic and Kinetic Control of Advanced Tokamak Steady State Scenarios based on Semi-Empirical Modeling	Prof. MOREAU, Didier	
[273] Beryllium Migration in JET ITER-like Wall Plasmas	Dr BREZINSEK, Sebastijan	
[524] Maximization of ICRF Power by SOL Density Tailoring with Local Gas Injection	Dr JACQUET, Philippe	
[521] Comparison of H-Mode Plasmas in JET-ILW and JET-C with and without Nitrogen Seeding	Mr JÄRVINEN, Aaro Einari	
[442] Development of DC Ultra-High Voltage Insulation Technology for ITER NBI	Dr TOBARI, Hiroyuki	
[441] Helicons Current Drive System in Tokamak T-15	Prof. VDOVIN, Victor	
[445] Tokamak with an Ergodic Central Area	Prof. ILGISONIS, Victor	
[434] Overview and Interpretation of L-H Threshold Experiments on JET with the ITER-like Wall	Dr DELABIE, Ephrem	
[433] Towards Baseline Operation Integrating ITER-Relevant Core and Edge Plasma within the Constraint of the ITER-like Wall at JET	Dr GIROUD, Carine	
[819] Gyrokinetic study of ASDEX-Upgrade inter-ELM profile evolution	Dr HATCH, David	
[92] WallDYN Simulations of Global Impurity Migration and Fuel Retention in JET and Extrapolations to ITER	Dr SCHMID, Klaus	
[97] Control of Spontaneous Rotation in a Field-Reversed Configuration by Double-Sided Magnetized Plasmoid Injection	Prof. ASAI, Tomohiko	
[145] Core Micro-Instability Analysis of JET Hybrid and Baseline Discharges with Carbon Wall	Dr MORADI, Sara	
[622] Tritium Safety Assessment for Fusion Reactor Based on Fuel Cycle and Environmental Dispersion Modelling	Dr NI, Muyi	
[134] Plasma Confinement by Pressure of Rotating Magnetic Field in Toroidal Device	Mr SVIDZINSKI, Vladimir	
[829] Enhanced Pedestal Performance in DIII-D Elm-free H-modes with Lithium Injection	Dr JACKSON, Gary L.	
[705] Progress Status of the Activities in EU for the Development of the ITER Neutral Beam Injector and Test Facility	Mr MASIELLO, Antonio	

<b>[397] Analysis of Accident Scenarios of a Water-Cooled Tokamak DEMO</b>	Dr NAKAMURA, Makoto	
<b>[89] Numerical Diagnostics of Non-Diffusive Transport Process by Use of Turbulence Diagnostic Simulator</b>	Dr KASUYA, Naohiro	
<b>[394] Finite Toroidal Flow Generated by Resistive Wall Tearing Modes in a Toroidal Plasma</b>	Dr HAO, Guangzhou	
<b>[797] Pedestal Confinement and Stability in JET-ILW ELMy H-Mode Scenarios</b>	Ms MAGGI, Costanza	
<b>[796] Multi-Scale ITG/TEM/ETG Turbulence Simulations with Real Mass Ratio and Beta Value</b>	Mr MAEYAMA, Shinya	
<b>[795] Edge Instability Limiting the Pedestal Growth on Alcator C-Mod Experiment and Modeling</b>	Mr HUGHES, Jerry	
<b>[794] Near-Field Physics of Lower-Hybrid Wave Coupling to Long-Pulse, High Temperature Plasmas in Tore Supra</b>	Mr GONICHE, Marc	
<b>[793] Fuel Retention and Erosion of Metallic Plasma-Facing Materials under the Influence of Plasma Impurities</b>	Mr KRETER, Arkadi	
<b>[792] Melting of Tungsten by ELM Heat Loads in the JET Divertor</b>	Mr MATTHEWS, Guy	
<b>[791] ICRF Actuator Development at Alcator C-Mod</b>	Mr WUKITCH, Stephen	
<b>[799] Advances in Stellarator Gyrokinetics</b>	Mr HELANDER, Per	
<b>[798] Overview of Recent Pedestal Studies at ASDEX Upgrade</b>	Dr VIEZZER, Eleonora	
<b>[586] Thermal Equilibrium and Density Limit in Tokamak-Reactor</b>	Prof. MOROZOV, Dmitry	
<b>[585] Discriminating the Trapped Electron Mode Contribution in Density Fluctuation Spectra and Turbulent Transport</b>	Dr SABOT, Roland	
<b>[589] ICRH for Mitigation of Core Impurity Accumulation in JET-ILW</b>	Dr LERCHE, Ernesto Augusto	
<b>[615] Progress in the Realization of the PRIMA Neutral Beam Test Facility</b>	Mr TOIGO, Vanni	
<b>[518] Steps in Validating Scrape-off Layer Simulations of Detached Plasmas in the JET ITER-like Wall Configuration</b>	Prof. GROTH, Mathias	
<b>[454] Advances in Modeling of Nonlinear Effects in LHCD Experiments</b>	Dr CASTALDO, Carmine	
<b>[173] Real-Time Control of ELM and Sawtooth Frequencies: Similarities and Differences</b>	Mr LENNHOLM, Morten	
<b>[650] Analysis of Tritium in Divertor Materials</b>	Mr HALITOV, Mihails	
<b>[17] Control Requirement of Tokamak Fusion Power Plant for Power Generation in Grid System</b>	Dr HIWATARI, Ryoji	
<b>[72] Plasma Current Start-up without Central Solenoid in the Iron Core STOR-M Tokamak</b>	Prof. XIAO, Chijin	
<b>[79] JET Asymmetrical Disruptions</b>	Dr GERASIMOV, Sergei	
<b>[359] Progress in Theoretical Studies of Resistive Wall Modes for RFP plasmas and Comparison with Tokamaks</b>	Dr GUO, ShiChong	
<b>[804] First-Principle Theory-Based Scaling of the SOL Width in Limited Tokamak Plasmas, Experimental Validation, and Implications for the ITER Start-up</b>	Mr RICCI, Paolo	
<b>[690] Impact of Divertor Geometry on ITER Scenarios Performance in the JET Metallic Wall</b>	Mr JOFFRIN, Emmanuel	
<b>[122] An Overview of Erosion-Deposition Pattern in JET with ITER-like Wall</b>	Dr BREZINSEK, Sebastijan	
<b>[416] ICRF System on Tokamak T-15</b>	Prof. VDOVIN, Victor	
<b>[417] Prototype Development of the ITER EC System with 170GHz Gyrotron</b>	Dr ODA, Yasuhisa	

<b>[410] Global Profile Relaxation Coupled with E×B Staircase in Toroidal Flux-Driven ITG Turbulence</b>	Dr IMADERA, Kenji	
<b>[316] Design Studies towards the Geometrical Optimization of the Thermal-Hydraulic Performance of Cylindrical Hypervapotron-Type Collectors for Gyrotrons</b>	Mr ZANINO, Roberto	
<b>[389] ICRF Heating Experiment Using the Faraday Shield Less Antenna and New High Power Antenna in LHD</b>	Mr SEKI, Tetsuo	
<b>[218] Advanced Divertor Analysis of HL-2M</b>	Dr ZHENG, Guoyao	
<b>[383] Long-Lived Ribbon Structure in JET Tokamak as a Manifestation of a Force-Free Magneto-Current Island</b>	Dr SOROKINA, Ekaterina	
<b>[387] Development of Dual Frequency Gyrotron and Launcher for the JT-60SA ECH/ECCD System</b>	Dr KOBAYASHI, Takayuki	
<b>[65] Development of Over 1 MW and Multi-Frequency Gyrotrons for Fusion</b>	Prof. IMAI, Tsuyoshi	
<b>[67] Two-Fluid Effects on Pressure-Driven Modes in a Heliotron Device</b>	Dr MIURA, Hideaki	
<b>[250] A Study of Core Thomson Scattering Measurements in ITER Using a Multi-Laser Approach</b>	Dr KURSKIEV, Gleb	
<b>[254] Limit Cycle Oscillations and L/H Transitions from Two Dimensional Mean Field Momentum Transport Equations</b>	Dr STAEBLER, Gary M.	
<b>[639] Physics Design and Economic Assessment of a Long-Pulsed Fusion Power Plant</b>	Mr CHEN, Dehong	
<b>[634] Theoretical Model of ITER High Resolution H-Alpha Spectroscopy for a Strong Divertor Stray Light and Validation against JET-ILW Experiments</b>	Dr KUKUSHKIN, Alexander B.	
<b>[803] Controlling H-Mode Particle Transport with Modulated Electron Heating in DIII-D and Alcator C-Mod via TEM Turbulence</b>	Mr ERNST, Darin	
<b>[802] Turbulence Behavior and Transport Response Approaching Burning Plasma Relevant Parameters</b>	Mr MCKEE, George R.	
<b>[801] Understanding of Impurity Poloidal Distribution in Edge Pedestal by Modeling</b>	Mr ROZHANSKY, Vladimir	
<b>[800] Dynamic Method to Study Turbulence and Turbulence Transport</b>	Mr INAGAKI, Shigeru	
<b>[807] Gyrokinetic Study of Edge Blobs and Divertor Heat-Load Footprint</b>	Mr PARKER, Scott	
<b>[806] Super H-mode: Theoretical Prediction and Initial Observations of a New High Performance Regime for Tokamak Operation</b>	Mr SNYDER, Philip B.	
<b>[805] Assessment of Scrape-off Layer Simulations with Drifts against L-Mode Experiments in ASDEX Upgrade and JET</b>	Ms AHO-MANTILA, Leena	
<b>[358] Non-Inductive Plasma Start-up Experiments on the TST-2 Spherical Tokamak Using Waves in the Lower-Hybrid Frequency Range</b>	Prof. TAKASE, Yuichi	
<b>[214] Simulation of Energy-Dependent Stochastic Transport Induced by Low-Order MHD Instabilities for Runaway Electron Mitigation</b>	Dr MATSUYAMA, Akinobu	
<b>[266] Formation of the Business Ecosystem of the Big Science in Korea: Focus on Nuclear Fusion and Accelerator Devices</b>	Dr CHOI, WON JAE	
<b>[264] Radiation Responses for a Stainless Steel Composite as a Neutral Beam Injector Guard Wall of ITER</b>	Mr OSEI-MENSAH, WILLIAM	
<b>[268] Plasma Isotopic Change over Experiments in JET under Carbon and ITER-like Wall Conditions</b>	Dr LOARER, Thierry	
<b>[827] Plasmoid Ejection Mechanism in Dynamic Divertor Experiment and Simulation</b>	Prof. ONO, Yasushi	

<b>[221] Progress in Long Pulse Production of Powerful Negative Ion Beams for JT-60SA and ITER</b>	Dr KOJIMA, Atsushi	
<b>[600] ICRF Discharge Production for Ion Cyclotron Wall Conditioning on JET</b>	Dr ONGENA, Jozef	
<b>[486] Parameters of Runaway Electrons in JET</b>	Dr PLYUSNIN, Vladislav V	
<b>[480] Numerical Modeling for Divertor Design and in Support to the WEST Project</b>	Dr CIRAOLO, GUIDO	
<b>[476] Preparing ITER Tungsten Divertor Operation in Tore Supra: Physics Basis for the WEST Project</b>	Dr TSITRONE, Emmanuelle	
<b>[475] Gyrokinetic Simulation of Phenomenology of GAMs</b>	Dr KIVINIEMI, Timo	