



# 24th IAEA Fusion Energy Conference - IAEA CN-197

## Tuesday, 9 October 2012

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[345] ITR/P1-28: Multi-machine Comparisons of Divertor Heat Flux Mitigation by Radiative Cooling	Mr KALLENBACH, Arne	
[346] FTP/P1-18: Progress in the Development of Long Pulse Neutral Beam Injectors for JT-60SA	Mr HANADA, Masaya	
[343] FTP/P1-09: Technology Gaps for the Fuel Cycle of a Fusion Power Plant	Mr DAY, Christian	
[712] ITR/1-3: Design of the MITICA Neutral Beam Injector: From Physics Analysis to Engineering Design	Mr SONATO, Piergiorgio	
[710] ITR/1-1: Scaling of the Tokamak near Scrape-off Layer H-mode Power Width and Implications for ITER	Mr EICH, Thomas	
[294] ITR/P1-25: 3D Vacuum Magnetic Field Modeling of the ITER ELM Control Coils during Standard Operating Scenarios	Mr EVANS, Todd E.	
[291] ITR/P1-27: Narrow Heat Flux Widths and Tungsten: SOLPS Studies of the Possible Impact on ITER Divertor Operation	Mr PACHER, Horst D.	
[192] ITR/P1-39: Modelling of Material Damage and High Energy Impacts on Tokamak PFCs during Transient Loads	Mr BAZYLEV, Boris	
[270] ITR/P1-02: Nuclear Analyses For ITER NB System	Mr SATO, Satoshi	
[271] FTP/P1-08: Preliminary Safety Analysis of the Indian Lead Lithium Cooled Ceramic Breeder Test Blanket Module System in ITER	Mr CHAUDHARI, Vilas	
[107] ITR/P1-19: Tokamak Experiments to Study the Parametric Dependences of Momentum Transport	Mr TALA, Tuomas	
[35] ITR/P1-10: Self-consistent Simulation of Plasma Scenarios for ITER Using a Combination of 1.5D Transport Codes and Free Boundary Equilibrium Codes	Mr PARAIL, Vassili	
[641] ITR/P1-31: Assessing the Power Requirements for Sawtooth Control in ITER through Modelling and Joint Experiments	Mr CHAPMAN, Ian	
[640] FTP/P1-26: The Influence on System Design of the Application of Neutral Beam Injection to a Demonstration Fusion Power Plant	Ms SURREY, Elizabeth	
[649] FTP/P1-34: Overview and Status of the Linear IFMIF Prototype Accelerator	Mr CARA, Philippe	
[437] ITR/P1-34: Benchmark of Gyrokinetic, Kinetic MHD and Gyrofluid Codes for the Linear Calculation of Fast Particle Driven TAE Dynamics	Mr KÖNIES, Axel	
[434] FTP/P1-19: Local Current Injector System for Nonsolenoidal Startup in a Low Aspect Ratio Tokamak	Mr FONCK, Raymond	
[338] ITR/P1-38: Studying the Capabilities of Be Pellet Injection to Mitigate ITER Disruptions	Mr KONOVALOV, Sergey	
[6] FTP/P1-27: Fusion Material Irradiation Test Facility at SNS	Mr WENDEL, Mark	
[552] FTP/P1-12: Progress of High Heat Flux Component Manufacture and Heat Load Experiments in China	Mr LIU, Xiang	
[238] ITR/P1-14: Disruption Impacts and Their Mitigation Target Values	Mr SUGIHARA, Masayoshi	

<b>[234] FTP/P1-07: “Snow Flakes” Divertor and 10 MA Scenarios in FAST</b>	Mr CRISANTI, Flavio	
<b>[236] ITR/P1-13: CORSICA Modelling of ITER Hybrid Mode Operation Scenarios</b>	Mr KIM, Sun Hee	
<b>[146] ITR/P1-21: Stability and Performance of ITER Steady State Scenarios with ITBs</b>	Ms POLI, Francesca	
<b>[618] ITR/P1-37: A Model for the Power Required to Access the H-mode in Tokamaks and Projections for ITER</b>	Mr SINGH, Raghvendra	
<b>[145] ITR/P1-01: Commissioning and First Results of the ITER-Relevant Negative Ion Beam Test Facility ELISE</b>	Mr FRANZEN, Peter	
<b>[135] FTP/P1-16: Progress in the Development of the ECRF System for JT-60SA</b>	Mr ISAYAMA, Akihiko	
<b>[495] ITR/P1-16: ITER Plasma Position Control System and Scenario Optimization</b>	Mr CAVINATO, Mario	
<b>[20] FTP/P1-01: Investigation and Testing of KTM Divertor Model on Basis of Lithium CPS</b>	Ms TAZHIBAYEVA, Irina	
<b>[371] ITR/P1-30: ITER Implications of the Beta Scaling of Energy Confinement</b>	Mr PETTY, C. Craig	
<b>[374] FTP/P1-30: Fusion Technology Facility – Key Attributes and Interfaces to Technology and Materials</b>	Mr WONG, Clement P.C.	
<b>[705] FTP/1-2: Acceleration of 1 MeV H- Ion Beams at ITER NB-relevant High Current Density</b>	Mr INOUE, Takashi	
<b>[707] ITR/1-2: Progress on the Application of ELM Control Schemes to ITER</b>	Mr LOARTE, Alberto	
<b>[589] ITR/P1-06: Optimization of the EC Heating and Current Drive Capabilities</b>	Mr HENDERSON, Mark	
<b>[519] FTP/P1-23: Preparation of Steady State Operation of the Wendelstein 7-X Stellarator</b>	Mr WOLF, Robert	
<b>[518] FTP/P1-22: Advances in Lower Hybrid Current Drive Technology on Alcator C-Mod</b>	Mr WALLACE, Gregory	
<b>[458] FTP/P1-20: Development of MW Gyrotrons for Fusion Devices by University of Tsukuba</b>	Mr MINAMI, Ryutaro	
<b>[620] ITR/P1-18: Challenges in Burning Plasma Physics: the ITER Research Plan</b>	Mr CAMPBELL, David	
<b>[627] ITR/P1-35: Effects of ELM Control Coil on Fast Ion Confinement in ITER H-mode Scenarios</b>	Mr OIKAWA, Toshihiro	
<b>[456] FTP/P1-31: Plasma Jets for Runaway Electron Beam Suppression</b>	Mr BOGATU, Ioan-Niculae	
<b>[656] ITR/1-4Ra: Development in Russia of Megawatt Power Gyrotrons for Fusion</b>	Mr LITVAK, Alexander	
<b>[170] FTP/P1-28: Potential for Improvement in High Heat Flux HyperVapotron Element Performance Using Nanofluids</b>	Mr SERGIS, Antonis	
<b>[181] ITR/P1-26: Analysis of Tungsten Dust Generation under Powerful Plasma Impacts Simulating ITER ELMs and Disruptions</b>	Mr BAZYLEV, Boris	
<b>[652] FTP/P1-35: IFMIF: Overview of the Validation Activities</b>	Mr HEIDINGER, Roland	
<b>[658] ITR/P1-40: Control of Major Disruptions in ITER</b>	Mr SEN, Amiya	
<b>[354] FTP/P1-29: Overview on CEA Contributions to the Broader Approach Projects</b>	Mr BAYETTI, Pascal	
<b>[200] FTP/P1-17: Feasibility and R&amp;D Needs of a Negative Ion Based Neutral Beam System for DEMO</b>	Ms FANTZ, Ursel	

<b>[205] ITR/P1-36: Assessment of the H-mode Power Threshold Requirements for ITER</b>	Mr GOHIL, Punit	
<b>[79] FTP/P1-02: Heat Flux and Design Calculations for the W7-X Divertor Scraper Element</b>	Mr LORE, Jeremy	
<b>[547] ITR/P1-17: Integrated Modelling of ITER Hybrid Scenarios Including Momentum Transport, NTMs, and ELMs in Preparation for Active Control</b>	Mr NA, Yong-Su	
<b>[122] FTP/P1-03: Temporal and Spatial Evolution of In-vessel Dust Characteristics in KSTAR and Dust Removal Experiments in TReD</b>	Mr HONG, Suk-Ho	
<b>[124] FTP/P1-04: Tungsten Divertor Target Technology and Test Facilities Development</b>	Mr KHIRWADKAR, Samir	
<b>[126] FTP/P1-05: Comparative Study of Chemical Methods for Fuel Removal</b>	Mr KRETER, Arkadi	
<b>[361] ITR/P1-04: EU Development of the ITER Neutral Beam Injector and Test Facility</b>	Mr MASIELLO, Antonio	
<b>[387] FTP/P1-10: Simulation Experiments of ELM-like Transient Heat and Particle Loads using a Magnetized Coaxial Plasma Gun</b>	Mr KIKUCHI, Yusuke	
<b>[570] FTP/P1-25: ECH-assisted Startup using ITER Prototype of 170 GHz Gyrotron in KSTAR</b>	Mr JEONG, Jin Hyun	
<b>[503] ITR/P1-08: RF Optimization of the Port Plug Layout and Performance Assessment of the ITER ICRF Antenna</b>	Mr DURODIE, Frederic	
<b>[164] ITR/P1-23: Non-linear MHD Simulation of ELM Energy Deposition</b>	Mr HUIJSMANS, Guido	
<b>[464] ITR/P1-15: Development of ITER Scenarios for Pre-DT Operations</b>	Mr CASPER, Thomas	
<b>[462] FTP/P1-32: Advances in the Electrical, Control Systems, General Analysis of the Coils Design in the Mexican Tokamak Experimental Facility</b>	Mr SALVADOR, Max	
<b>[350] ITR/P1-05: Development of ITER Equatorial EC Launcher</b>	Mr TAKAHASHI, Koji	
<b>[163] ITR/P1-33: Fast Ion Power Loads on ITER First Wall Structures in the Presence of ELM-mitigation Coils and MHD Modes</b>	Ms KURKI-SUONIO, Taina	
<b>[356] ICC/P1-01: Magnetic System for the Upgraded Spherical Tokamak Globus-M2</b>	Mr MINAEV, Vladimir	
<b>[281] ITR/P1-24: Three-dimensional Fluid Modeling of Plasma Edge Transport and Divertor Fluxes during RMP ELM Control at ITER</b>	Mr SCHMITZ, Oliver	
<b>[531] FTP/P1-33: An Advanced Plasma-material Test Station for R&amp;D on Materials in a Fusion Environment</b>	Mr RAPP, Juergen	
<b>[111] ITR/P1-09: On the Use of Lower Hybrid Waves at ITER Relevant Density</b>	Mr TUCCILLO, Angelo A.	
<b>[110] ITR/P1-20: Integrated Magnetic and Kinetic Control of Advanced Tokamak Scenarios Based on Data-Driven Models</b>	Mr MOREAU, Didier	
<b>[118] ITR/P1-12: Modelling of ITER Plasma Shutdown with Runaway Mitigation Using TSC</b>	Mr BANDYOPADHYAY, Indranil	
<b>[429] ITR/P1-29: PTRANSP Tests of TGLF and Predictions for ITER</b>	Mr BUDNY, Robert	
<b>[428] ITR/P1-32: Observation of Localized Fast-Ion Induced Heat Loads in Test Blanket Module Simulation Experiments on DIII-D</b>	Mr KRAMER, Gerrit J.	
<b>[427] FTP/P1-11: Plasma Characteristics of the End-cell of the GAMMA 10 Tandem Mirror for the Divertor Simulation Experiment</b>	Mr NAKASHIMA, Yousuke	
<b>[426] ITR/P1-07: Validation of the RF Properties and Control of the ITER ICRF Antenna</b>	Mr DUMORTIER, Pierre	

<b>[305] FTP/1-3Rb: Progress on the Development of High Power Long Pulse Gyrotron and Related Technologies</b>	Mr KAJIWARA, Ken	
<b>[701] FTP/1-1: Evaluation of Optimized ICRF and LHRF Antennas in Alcator C-Mod</b>	Mr WUKITCH, Stephen	
<b>[227] ITR/P1-03: Status of the Negative Ion Based Diagnostic Neutral Beam for ITER</b>	Ms SCHUNKE, Beatrix	
<b>[223] FTP/P1-06: Analysis of Establishment and MHD Stability of a Free Curve-Surface Flow for Liquid Metal PFCs</b>	Mr DUAN, Xuru	
<b>[153] ITR/P1-22: Non-linear MHD Modelling of ELM Triggering by Pellet Injection in DIII-D and Implications for ITER</b>	Mr HUIJSMANS, Guido	
<b>[602] FTP/P1-14: Recent Progress in the NSTX/NSTX-U Lithium Program and Prospects for Reactor-relevant Liquid-lithium Based Divertor Development</b>	Mr ONO, Masayuki	
<b>[41] ITR/P1-11: Demonstrating the ITER Baseline Operation at <math>q_{95}=3</math></b>	Mr SIPS, Adrianus	
<b>[609] FTP/P1-15: Effects of the Lithium Concentration on Tritium Release Behaviors from Advanced Tritium Breeding Material <math>Li_{2+x}TiO_3</math></b>	Mr UCHIMURA, Hiromichi	
<b>[480] FTP/P1-21: Status and Plan of the Key Actuators for KSTAR Operation</b>	Mr YANG, Hyung Yeol	