

26th IAEA Fusion Energy Conference - IAEA CN-234

Thursday, 20 October 2016

Poster 6: P6 (14:00 - 18:45)

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| [344] Progress in understanding the role of low-Z impurity in the confinement in JET-ILW and in JET-C plasmas | Dr GIROUD, Carine | |
| [345] Recent Results on High-Triangularity H-mode Studies in JET-ILW | Dr DE LA LUNA, Elena | |
| [346] Multiscale modelling of sheath physics in edge transport codes | Dr MELLET, Nicolas | |
| [348] Overview of the Preliminary Design of the ITER Plasma Control System | Dr SNIPES, Joseph | |
| [349] Plasma-wall interaction studies in the full-W ASDEX Upgrade during helium plasma discharges | Dr HAKOLA, Antti | |
| [717] Study of the Effect of Magnetic Expansion in Snowflake Divertor on Impurity Screening for CFETR | Prof. YE, Minyou | |
| [716] Comprehensive Analysis of Metal Dust Particles in JET-ILW, and Impact on Fusion Reactor | Dr ASHIKAWA, Naoko | |
| [618] Kinetic modeling of tungsten impurity transport using the IMPGYRO code | Mr YAMOTO, Shohei | |
| [592] Strong Electron Emission Could Enable a New Plasma-Surface Interaction Regime in Divertors | Dr CAMPANELLI, Michael | |
| [191] Analysis of the impact of nitrogen- & neon-seeding on ASDEX-Upgrade H-Modes with SOLPS simulations | Dr REIMOLD, Felix | |
| [270] Retention and Release of Hydrogen Isotopes in Tungsten Plasma Facing Components: Understanding and Controlling with an Integrated Approach | Dr BISSON, Régis | |
| [274] Ion Cyclotron Range of Frequency Power Challenges and Solutions | Prof. NOTERDAEME, Jean-Marie | |
| [319] Detailed Survey of Dust Particles from JET with the ITER Like Wall: Origin, Composition and Internal Structure | Dr GRZONKA, Justyna | |
| [529] Plasma Control Studies Using DIII-D Design Tools in Support of ITER | Dr HUMPHREYS, David | |
| [448] Advances in Neutral Beam Current Drive Experiments on ASDEX Upgrade | Dr HOPF, Christian | |
| [47] EMC3-EIRENE Simulations for the Impact of External Magnetic Perturbations on EAST Edge Plasma | Mrs HUANG, Juan | |
| [334] Comparison of Runaway Electron Generation Parameters in Small, Medium-sized and Large Tokamaks – A Survey of Experiments in COMPASS, TCV, ASDEX-Upgrade and JET | Dr PLYUSNIN, Vladislav V | |
| [37] Assessment of X-point target divertor configuration for power handling and detachment front control | Dr LABOMBARD, Brian | |
| [645] The Role of the neoclassical E_r for the L-H Transition in ASDEX Upgrade | Dr PÜTTERICH, Thomas | |
| [430] Density Peaking in JET - Driven by Fuelling or Transport? | Dr TALA, Tuomas | |
| [98] Modelling of Prompt Deposition of Tungsten under Fusion Relevant Conditions | Dr KIRSCHNER, Andreas | |
| [92] Impact of the JET ITER-like wall on H-mode plasma fuelling | Dr WIESEN, Sven | |

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| [97] Electron Heat Transport in JET from Ion to Electron scales: Experimental Investigation and Gyro-kinetic Simulations | Dr MANTICA, Paola | |
| [153] Losses of runaway electrons in MHD-active plasmas of the COMPASS tokamak | Dr MLYNAR, Jan | |
| [743] First Results of the Stellarator of Costa Rica 1 (SCR-1) | Prof. MORA-MELÉNDEZ, Jaime | |
| [551] Turbulence characteristics of the I-mode confinement regime in ASDEX Upgrade | Dr MANZ, Peter | |
| [552] Ion Cyclotron Resonance Heating for Tungsten Control in JET H-mode Scenarios | Dr GONICHE, Marc | |
| [143] Fuel Inventory and Deposition in Castellated Beryllium Structures in JET | Prof. RUBEL, Marek | |
| [613] Observation of KBM and MTM in JIPPT-IIU tokamak plasmas using a heavy ion beam probe | Mr HAMADA, Yasuji | |
| [135] Impurity Transport Caused by Blob and Hole Propagations | Dr HASEGAWA, Hiroki | |
| [136] Pulse-resolved measurements of material migration in the JET-ILW divertor by quartz crystal microbalance | Dr KIRSCHNER, Andreas | |
| [378] Pedestal-to-Wall 3D Fluid Transport Simulations on DIII-D and NSTX | Dr LORE, Jeremy | |
| [794] Dynamics of tungsten erosion under ELM-like intense heat loads | Dr ARAKCHEEV, Aleksey | |
| [700] Investigation of Neutral Particle Dynamics in Aditya Tokamak Plasma with DEGAS2 Code | Dr GHOSH, Joydeep | |
| [796] Evolution and control of tungsten transport in the termination phase of JET H-mode discharges and implications for ITER | Dr KOECHL, Florian | |
| [459] Modelling ITER Asymmetric VDEs through Asymmetries of Toroidal Eddy Currents | Mr ROCCELLA, riccardo | |
| [514] Integrated Simulations of H-mode Operation in ITER including Core Fuelling, Divertor Detachment and ELM Control | Dr POLEVOI, Alexei | |
| [454] Corrosion compatibility of capillary-porous system solid base with low melting metals applied as plasma facing materials for tokamak | Dr VERTKOV, Alexey | |
| [179] Neutron yield studies in JET H-modes | Mr WEISEN, Henri | |
| [180] The role of statistical noise in edge plasma transport codes based on kinetic Monte Carlo solvers for neutrals: an analogy with turbulent fluctuations | Dr MARANDET, Yannick | |
| [187] Assessment of the Baseline Scenario at q95~3 for ITER | Dr SIPS, Adrianus | |
| [185] Pedestal and core turbulence dynamics using 1µs sweeping profile reflectometry | Mr CLAIRET, Frederic | |
| [12] Numerical analyses of baseline JT-60SA design concepts with the COREDIV code | Dr ZAGORSKI, Roman | |
| [19] Kinetic Understanding of Neoclassical Scrape-off Layer Physics, Comparison with Fluid Modeling, and Experimental Validation | Mr CHURCHILL, Randy | |
| [329] Progress in first-principles simulation of SOL plasma turbulence and neutral atom dynamics with the GBS code | Prof. RICCI, Paolo | |
| [70] Particle simulation on blob formation and propagation in an open system | Prof. KATANUMA, Isao | |
| [668] A model for predicting tritium flux from blanket mock-up in Tokamak fusion reactors | Dr SANGAROON, Siriyaporn | |
| [653] Comparison of Divertor Heat Flux Splitting by 3D Fields with Field Line Tracing Simulation in KSTAR | Prof. CHOE, Wonho | |

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| [547] Particle simulation of plasma heat-flux dissipation by evaporated wall materials | Dr IBANO, Kenzo | |
| [127] Big Data Machine Learning for Disruption Predictions | Dr TANG, William | |
| [314] Plasma disruption management in ITER | Dr LEHNEN, Michael | |
| [384] Physics, control and mitigation of disruptions and runaway electrons in the EUROfusion Medium Size Tokamaks science programme | Prof. MARTIN, Piero | |
| [786] Plasma particle and energy exhaust to and recycling at a tungsten surface | Dr TANG, Xianzhu | |
| [388] A multi-machine analysis of non-axisymmetric and rotating halo currents | Dr MYERS, Clayton | |
| [780] Realtime tokamak simulation with a first-principle-based neural network turbulent transport model | Dr CITRIN, Jonathan | |
| [578] Nonlinear dynamics of ELMs with Er shear and collisionality trends | XU, Xueqiao | |
| [258] IShTAR: a dedicated facility to characterize the interactions between ICRF waves and plasma | Dr CROMBE, Kristel | |
| [65] Growth estimates, control and structures in a two-field model of the scrape-off layer | Prof. BIZARRO, João P. S. | |
| [256] ERO modelling of Be erosion in JET and extrapolation of the data for ITER | Dr BORODIN, Dmitiriy | |
| [738] Long-term fuel retention and release in JET ITER-Like Wall at ITER-relevant baking temperatures | Dr HEINOLA, Kalle | |
| [501] Generation of the disruption mitigation trigger: developing a preliminary design for ITER | PAUTASSO, Gabriella | |
| [215] The field line map approach for simulations of plasma edge/SOL turbulence | Dr STEGMEIR, Andreas | |
| [212] Plasma-surface interactions leading to self-sustained discharges at the first wall | Dr TSVENTOUKH, Mikhail | |
| [4] Plasma Instabilities Represent Serious Threat for a Successful Tokamak Concept | Prof. HASSANEIN, Ahmed | |
| [287] Neutral Recycling Effect on Edge ITG Turbulence and Transport | STOTLER, Daren | |
| [286] The role of ELM's and inter-ELM phases in the transport of heavy impurities in JET | Dr VALISA, Marco | |
| [261] Recent ion cyclotron resonance heating experiments in JET in preparation of a DT campaign | Dr VAN EESTER, Dirk | |
| [269] Multi-machine analysis of termination scenarios, providing the specifications for controlled shutdown of ITER discharges | Dr DE VRIES, Peter | |
| [532] Phase-space resolved measurements of the influence of RF heating and MHD instabilities on the fast-ion distribution in ASDEX Upgrade | WEILAND, Markus | |
| [152] Basic studies of blob dynamics in X-point configurations and interaction with suprathermal ions in the TORPEX device | Dr FURNO, Ivo | |
| [119] Contribution to the multi-machine pedestal scaling from COMPASS tokamak | Dr KOMM, Michael | |
| [390] Divertor heat flux simulations in ELMy H-mode discharges of EAST and other tokamaks | Mr XIA, Tianyang | |
| [751] Scrape-Off Layer Turbulence in Tokamaks Simulated with a Continuum Gyrokinetic Code | Mr HAKIM, Ammar | |
| [750] Understanding the Blobby Turbulence in Edge Plasma from Gyrokinetic Simulation | Dr KU, Seung-Hoe | |

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| [755] Studies of Alfvén eigenmodes in the ITER baseline scenario, sawtoothing JET plasmas, and MAST hydrogen-deuterium plasmas | Dr SHARAPOV, Sergei | |
| [227] Numerical investigation of 3-D plasma edge transport and heat fluxes including impurity effects in Wendelstein 7-X start-up plasmas with EMC3-Eirene | Mr EFFENBERG, Florian | |
| [222] Progress towards self-consistent treatment of turbulence in edge plasma modelling codes | Dr TAMAIN, Patrick | |
| [221] Thermal analysis of transient tungsten melting experiments at JET | Mr CORRE, Yann | |
| [727] Multi-machine experimental investigation of ion cyclotron emission | Dr D'INCA, Rodolphe | |
| [605] Ion heat and toroidal momentum transport studies in the H-mode transport barrier of ASDEX Upgrade | Dr VIEZZER, Eleonora | |
| [480] Plasma response of external magnetic perturbations at the edge: Comparisons between measurements and 3D MHD models | Dr WILLENSDORFER, Matthias | |
| [471] MHD limits and plasma response in high beta hybrid operations in ASDEX Upgrade | Dr IGOCHINE, Valentin | |