27th IAEA Fusion Energy Conference - IAEA CN-258

Thursday, October 25, 2018

P6 Posters (2:00 PM - 6:45 PM)

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[395] Favorable Impact of RMP ELM Suppression On Divertor Heat Fluxes at ITER-like Conditions	Dr LOARTE, Alberto	
[438] Dynamics of Neon Ions after Neon Gas Seeding and Puffing into Tokamak Plasma	Dr BISAI, Nirmal Kumar	
[717] Application of the Semi–Implicit Numerical Method on the Radial Impurity Transport Equation and Determination of O4+ Emissivity with Two Separate PEC Databases	Ms BHATTACHARYA, AMRITA	
[298] Confinement in stellarators with the global gyrokinetic code XGC	Dr COLE, Michael	
[297] Access Requirements for Stationary ELM-suppressed Pedestals in DIII-D and C-Mod Plasmas	Dr WILKS, Theresa	
[294] Scalings of Ion Temperature Gradient Turbulence and Transport	Prof. TERRY, Paul	
[198] ELMs onset triggered by mode coupling near rational surfaces in the pedestal	Dr DIALLO, Ahmed	
[753] Development of a High-Flux Fusion Neutron Source Using Recent Advances in Technology	Prof. FOREST, Cary	
[432] Advancing Local Helicity Injection for Non-Solenoidal Tokamak Startup	Dr BONGARD, Michael	
[433] The universality of inter-ELM pedestal fluctuations in AUG and DIII-D - Impacting the edge profile structure by clamping of the gradients	Dr LAGGNER, Florian M.	
[6] Machine learning for disruption warning on Alcator C-Mod, DIII-D, and EAST Tokamaks	Dr GRANETZ, Robert	
[741] Progress in the ITER Integrated Modelling Programme and the ITER Scenario Database	Dr PINCHES, Simon	
[235] En Route to High-Performance Discharges: Insights and Guidance from High-Realism Gyrokinetics	Dr GÖRLER, Tobias	
[135] Nonlinear gyrokinetic analysis of linear Ohmic confinement to saturated Ohmic confinement transition	Dr QI, Lei	
[379] Injection of Multiple Shattered Pellets for Disruption Mitigation in DIII-D	Dr HERFINDAL, Jeffrey	
[20] Numerical simulation of high neutron rate JET-ILW DD pulses in view of extension to DT experiments	Mr TELESCA, Giuseppe	
[394] Parallel Energy Transport in Detached DIII-D Divertor Plasmas	Mr LEONARD, Anthony	
[375] Inter vs. Intra-ELM Tungsten Erosion and Transport from the Divertor in DIII-D High-Performance H-mode Discharges	Dr ABRAMS, Tyler	
[709] Physics-model-based Real-time Optimization for the Development of Steady-state Scenarios at DIII-D	Prof. SCHUSTER, Eugenio	
[89] Kinetic Simulation Studies on Multi-ion-species Plasma Transport in Helical Systems	Dr NUNAMI, Masanori	

[588] Investigation of fast particle redistribution induced by sawtooth instability in NSTX-U	Dr KIM, Doohyun	
[245] Particle Transport from the Bottom Up	Prof. MORDIJCK, Saskia	
[249] Observation of Multiple Helicity Mode-Resonant Locking Leading to a Disruption on DIII-D	SHAFER, Morgan	
[519] Disruption Event Characterization and Forecasting in Tokamaks	Dr SABBAGH, Steven	
[513] First Simulations of Turbulent Transport in the Field-Reversed Configuration	Prof. LIN, Zhihong	
[451] Towards a predictive modelling capacity for DT plasmas: European Transport Simulator (ETS) verification and validation	Dr STRAND, Par	
[455] Measurements of high-Z divertor impurity sourcing and divertor leakage using isotopic tungsten tracer sources in DIII-D	Dr UNTERBERG, Ezekial	
[177] Simulation study of electrostatic potential generated by NBI and its effect on the neoclassical transport of carbon impurity ions in LHD	Prof. YAMAGUCHI, Hiroyuki	
[764] Self-driven Current Generation in Turbulent Fusion Plasmas	Dr WANG, Weixing Wang	
[12] Neural-network accelerated coupled core-pedestal simulations with self-consistent transport of impurities	Dr MENEGHINI, Orso	
[16] Flux-surface averaged radial transport in toroidal plasmas with magnetic islands	Dr LÓPEZ-BRUNA, Daniel	
[207] Global Alfvén eigenmode stability dependence on fast-ion distribution function	Dr PODESTA, Mario	
[208] High Performance Double-null Plasmas Under Radiating Divertor and Mantle Scenarios on DIII-D	Dr PETRIE, Thomas W.	
[359] Analysis and modelling of NTMs dynamics in JET discharges using the European Transport Simulator (ETS) and integrated modelling tools	Dr NOWAK, Silvana	
[667] Study of evolution of trapped particle undamped coherent structures: An important agent in intermittent plasma turbulence and anomalous transport	Mr MANDAL, Debraj	
[125] Gyrokinetic Modeling of Turbulent Particle Fluxes towards Efficient Predictions of Density Profiles	Ms NARITA, Emi	
[544] Quantification of Radiating Species in the DIII-D Divertor in the Transition to Detachment Using Extreme Ultraviolet Spectroscopy	Dr MCLEAN, Adam	
[416] Theory of turbulence driven intrinsic rotation and current	Prof. WANG, Lu	
[361] Observation of efficient lower hybrid current drive at high density on Alcator C-Mod	BAEK, Seung Gyou	
[380] Fast wave experiments in LAPD in support of fusion	Dr VAN COMPERNOLLE, Bart	
[387] The Effect of RMP ELM Control for ITER on Pedestal Pressure Compared to EPED No-RMP Predictions	Dr FENSTERMACHER, Max	
[212] Implementing a finite-state off-normal and fault response system for robust disruption avoidance in tokamaks	Dr EIDIETIS, Nicholas	
[211] DIII-D Shaping Demonstrates Correlation of Intrinsic Momentum with Energy	Dr DEGRASSIE, John	
[284] Fast ITER-relevant low-disruptivity rampdowns in DIII-D and EAST	Dr BARR, Jayson	
[532] Weak turbulence transport with background flows using mapping techniques including finite Larmor radius effects	Dr MARTINELL, Julio	
[119] Parametric study of the impurity profile in the Thailand tokamak	Dr SANGAROON, Siriyaporn	

[427] Rotation Profile Hollowing in DIII-D Low-Torque Electron-Heated H-mode Plasmas	Dr GRIERSON, B.A.	
[390] Development and First Experimental Tests of a Small Angle Slot Divertor on DIII-D	Mr GUO, Houyang	
[560] Ion and Electron Temperature Predictions based on Thailand Tokamak Plasmas using CRONOS Code	Dr CHATTHONG, Boonyarit	
[564] Physics of fast component of deuterium gas jet injection in magnetized plasmas	Dr WANG, Zhanhui	
[391] High confinement in negative triangularity discharges in DIII-D	Dr AUSTIN, Max	
[155] Transport of collisional impurities with flux-surface density variation in stellarator plasmas	Mr BULLER, Stefan	
[158] Error Field Impact on Mode Locking and Divertor Heat Flux in NSTX-U	FERRARO, Nathaniel	
[487] High-Frequency Energetic Particle Driven Instabilities and their Implications for Burning Plasmas	Dr THOME, Kathreen	
[471] Transport simulation of EAST long pulse discharge and high betaN discharge with integrated modelling	Dr LI, Guoqiang	
[478] Rotation-induced electrostatic-potentials and density asymmetries in NSTX	Dr DELGADO-APARICIO, Luis F.	
[24] Extending the boundary heat flux width database to 1.3 Tesla poloidal magnetic field in the Alcator C-Mod tokamak	Dr UMANSKY, Maxim	
[23] Critical Processes of Tearing Mode Entrainment in the Presence of a Static Error Field	Dr OKABAYASHI, Michio	
[382] Enhancement of helium exhaust during suppression of edge localized modes by resonant magnetic perturbation fields at DIII-D	Dr HINSON, Edward	
[711] Total-f gyrokinetic turbulent-neoclassical simulation of global impurity transport and its effect on the main-plasma confinement	Dr CHANG, Choong-Seock	
[425] Dynamic Neutral Beam Injection as a Mechanism for Plasma Control and an Actuator for Instability Drive	Mr GRIERSON, B.A.	