

EPS 2018 Programme

Thursday, July 5, 2018

POSTER SESSION (2:00 PM - 4:00 PM)

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[5888] P4.1044 Using rotating current ribbons to model MHD: the EHO	SOLANO, Emilia R.	
[5983] P4.2028 Multiple-core hole states production in the interaction of solid-state density plasmas with a relativistic optical and x-ray free electron laser	ZENG, Jiaolong	
[5879] P4.1035 JET ITER-like and JET Carbon wall discharges: 2 different scaling for the frequency of type I ELMs. Consequences for the pedestal structure.	DEVYNCK, Pascal	
[5984] P4.2030 Photon dose lowering by fast electron energy loss induced by return current as a short-pulse high-intensity laser interacts on a metal solid target	FONTAINE, Antoine Yvon Compant La	
[5980] P4.2025 Integrated simulation analysis of core heating property for ion assisted fast ignition using low-density structured plastic foam	SAKAGAMI, Hitoshi	
[5981] P4.2026 Investigation of radiation reaction at ELI-NP	SETO, Keita	
[5986] P4.2032 Velocity measurement of laser-induced shock using a spectral domain interferometer and a chirped pulse laser	ISHII, Katsuhiro	
[5987] P4.2033 Experiments with Shanghai Super-intense Ultrafast Laser Facility and the Station of Extreme Light	SHEN, Baifei	
[5985] P4.2031 Simulation studies on transmissivity of silicon nitride plasma shutter for laser pulse contrast enhancement	MATYS, Martin	
[5854] P4.1009 Fast simulation of local radiation fields for synthetic diagnostics	KOVALEV, Andrei Olegovich	
[5855] P4.1010 New Diagnostics Developments on IShTAR	CROMBE, Kristel	
[5856] P4.1011 Calculation of optical depth based on electron cyclotron emission in IR-T1 Tokamak plasmas	AHMADI, Mona	
[5857] P4.1012 ITER plasma spectra modelling for charge exchange recombination spectroscopy	SEROV, Stanislav	
[5850] P4.1005 Regularization extraction for real-time plasma tomography at JET	CARVALHO, D. D.	
[5851] P4.1006 EEDF in the COMPASS divertor region during an impurity-seeding experiment	DIMITROVA, Miglena	
[5852] P4.1007 Simulation of electron density measurement in Taban tokamak via reflectometry system	KOOHESTANI, Saeideh	
[5853] P4.1008 Diagnostics of optical characteristics of gas- discharge plasma in a mixture of mercury diiodide and mercury dibromide vapor, xenon and helium	MALININA, Antonina	
[5915] P4.1071 Expected performances of the DTT heating systems	GARAVAGLIA, Saul	
[5914] P4.1070 Plasma heating and neutron production in the TUMAN-3M	KORNEV, Vladimir Alexandrovich	
[5917] P4.1073 New powerful ion source for Globus-M2 spherical tokamak injector	SHCHEGOLEV, Petr Borisovich	

[5916] P4.1072 Kinetic full wave analysis of electron cyclotron waves in a tokamak plasma using finite element method	FUKUYAMA, Atsushi	
[5858] P4.1013 Neural networks for fast soft X-ray tomographic inversions in tokamaks	JARDIN, Axel	
[5910] P4.1066 Investigation of pellet cloud dynamics in the magnetic geometry of Wendelstein 7-X stellarator	KOCSIS, Gabor	
[5913] P4.1069 The role of pinch, fueling in determining the pedestal density structure	MORDIJCK, Saskia	
[6007] P4.3013 Charge Fluctuations of small Particles	MICHAU, Armelle	
[5988] P4.2034 Interaction of multi-PW class laser pulses with underdense plasmas	YANO, Masahiro	
[5982] P4.2027 Laser-induced vacuum birefringence beyond idealized setups	TORRES, Rui Pedro	
[5951] P4.1106 Highly collisional two-fluid and gyrokinetic simulations of tokamak edge turbulence and the transition between kinetic and fluid regime	HALLATSCHEK, Klaus	
[5950] P4.1105 Monte-Carlo simulation of fast ion transport in magnetic island regions	SAAVEDRA, Rodrigo	
[5953] P4.1108 Explaining cold-pulse dynamics in tokamak plasmas using local turbulent transport models	RODRIGUEZ-FERNANDEZ, Pablo	
[5952] P4.1107 Turbulent impurity transport of electrostatic drift wave in tokamak plasmas	HAN, Mingkun	
[5955] P4.1110 Kinetic flux limiters for the ITER Scrape-Off Layer	VASILESKA, Ivona	
[5954] P4.1109 Measurement of neon impurity transport by ME-SXR diagnostic in the EAST tokamak	LI, Yongliang	
[5957] P4.1112 First Results of Transport Studies of injected impurities in Wendelstein 7-X	WEGNER, Thomas	
[5956] P4.1111 Reduced fluctuations in high confinement plasmas at negative triangularity on DIII-D	MARINONI, Alessandro	
[5959] P4.2003 Fast Neutron Detection in Super-intense γ Radiation	LIU, Hongjie	
[5958] P4.2002 Relativistic Doppler-boosted gamma-rays in High Fields	CAPDESSUS, Remi	
[5924] P4.1080 Application of modified ASTRA-SPIDER code to simulation of free boundary equilibrium evolution	DNESTROVSKIY, Alexey	
[5925] P4.1081 Confinement improvement triggered by the impurity injection in T-10 ECR heated plasmas	KIRNEVA, Natalia A.	
[5926] P4.1082 Fast ion confinement study by NB blips in the LHD deuterium plasma	NISHITANI, Takeo	
[5927] P4.1083 Multiplet effects in radiation losses during discharge quenching by intense argon injection in ITER	SDVIZHENSII, Petr A.	
[5920] P4.1076 Development of a caesium free hydrogen negative ion source based on a pulsed ICP discharge	BARNES, Michael	
[5921] P4.1077 Predictive integrated modelling simulations in preparation of the JET Deuterium-Tritium campaign	MORALES, Jorge	
[5922] P4.1078 How predict-first will change our approach to experimental planning	POLI, Francesca	
[5923] P4.1079 Robust plasma position, current, and shape control system simulated on plasma evolution code for the spherical tokamak Globus	KORENEV, Pavel	

[5928] P4.1084 Real-time capable neural network approximation of NUBEAM for use in the NSTX-U control system	BOYER, Mark Daniel	
[5929] P4.1085 Collisional transport of heavy impurities with flux-surface density variation in stellarators	BULLER, Stefan	
[5911] P4.1067 Neutral Beam Injection on JET : Effect on neutron discrepancy and energy balance	KING, Damian Bryan	
[5995] P4.2041 Open, Any-Platform, Leadership-Scale PIC Simulations for Humans (No Hooks Attached)	PAUSCH, Richard	
[5994] P4.2040 High intensity physics and braided beam emissions in underdense plasmas	WALLIN, Erik	
[5997] P4.3002 Self-consistent simulation of hydrogen-methane plasmas for CVD diamond deposition	HASSOUNI, Khaled	
[5991] P4.2037 High Harmonic Generation and QED Effects Induced by Relativistic Oscillating Mirror	GU, Yanjun	
[5990] P4.2036 Accessing the relativistic transparency regime in laser-ion acceleration experiments	OBST, Lieselotte	
[5993] P4.2039 Multipurpose single shot, offline and online, gamma calorimeters for ultra-high intensity laser-plasma experiments	LASO GARCIA, Alejandro	
[5992] P4.2038 Kinetic and finite ion mass effects on the transition to relativistic self-induced transparency in laser-driven ion acceleration	SIMINOS, Evangelos	
[5999] P4.3004 Internal energy relaxation processes of nitrogen plasmas at different electronic states in an entry flight condition	YAMADA, Gouji	
[5932] P4.1088 Turbulent transport model validation at JET using integrated modelling enhanced by Gaussian process regression	HO, Aaron	
[5998] P4.3003 Impact of shock wave on weakly ionized gas: numerical evaluation	TRIASKIN, Jaroslav	
[5968] P4.2012 Recent results on quantum radiation reaction effects in laser plasma interaction	RICONDA, Caterina	
[5846] P4.1001 Understanding the mechanism of alpha channelling	ROMANELLI, Francesco	
[5960] P4.2004 Hybrid SRS-TPD instability in inhomogeneous femtosecond laser plasma	TSYMBALOV, Ivan	
[5919] P4.1075 Development of RF wave simulation using the open source MFEM library	SHIRAIWA, Syun'ichi	
[5962] P4.2006 Magnetic controlling of high-power laser pulses and their interactions with plasmas	WENG, Su-Ming	
[5963] P4.2007 NCD plasma dynamics driven by ultraintense femtosecond laser pulse	YUAN, Xiaohui	
[5964] P4.2008 Perspectives of Ion Acceleration with PW-lasers	TER-AVETISYAN, Sargis	
[5965] P4.2009 Phase-space analysis of the Schwinger effect in inhomogeneous electromagnetic fields	KOHLFÜRST, Christian	
[5849] P4.1004 Modelling of Alfvén cascades in NBI heated stellarator plasmas	RAKHA, Allah	
[5848] P4.1003 Kinetic Electromagnetic Instabilities in an ITB Plasma with Weak Magnetic Shear	CHEN, Wei	
[5859] P4.1014 Feasibility of pedestal density fluctuation measurement by beam emission spectroscopy on the ITER diagnostic beam	ASZTALOS, Örs	

[5890] P4.1046 Dependence of the shattered-pellet-mitigated thermal quench radiation efficiency on the plasma thermal energy in DIII-D with uncertainties derived from disruption energy flow models	SWEENEY, Ryan	
[5891] P4.1047 Parametric dependence analysis of disruption forces in tokamaks	VILLONE, Fabio	
[5892] P4.1048 Experimental investigations on plasma current quench during disruptions in the KSTAR tokamak	BAK, Jun-Gyo	
[5893] P4.1049 Anisotropic heat diffusion on stochastic magnetic fields	SUZUKI, Yasuhiro	
[5894] P4.1050 Smoothed particle hydrodynamics and its application to the solution of fusion-related MHD problems	VELA, Luis Ernesto Vela	
[5895] P4.1051 Experimental validation of the reconnection model (full or partial) in the sawtooth instability in KSTAR	PARK, Hyeon K.	
[5896] P4.1052 Observations of electron-driven Alfvén eigenmodes in Wendelstein 7-X	EDLUND, Eric	
[5897] P4.1053 Features of the high field ultra-low aspect ratio tokamak	RIBEIRO, Celso	
[5898] P4.1054 A relativistic Langevin approach for runaway electrons in tokamak plasmas	MIER, José Ángel	
[5899] P4.1055 Circuit analysis of nested current element to explain Ohmic current diffusion in tokamak plasmas	LEE, Hyung-Ho	
[5973] P4.2018 All-optical studies of high-field QED processes: experimental limitations	SAMARIN, G. M.	
[5972] P4.2017 Fast ignition fusion by counter beam illumination for the CANDY project-Hole boring on injected CD spherical pellet targets-	KITAGAWA, Yoneyoshi	
[5937] P4.1093 Shear effect on edge turbulence during the L-H transition in JET and ASDEX Upgrade plasmas	CLAIRET, Frederic	
[5936] P4.1092 Fluctuations measurements in TEM and ITG dominated negative triangularity plasmas	FONTANA, Matteo	
[5935] P4.1091 Real-time multichannel tokamak plasma profile simulations using the RAPTOR code and the QLK-NN first-principle transport model	FELICI, Federico	
[5934] P4.1090 Interaction between magnetic island, plasma perpendicular flow and turbulence in HL-2A ohmic plasmas	JIANG, Min	
[5933] P4.1089 Gyrokinetic Simulation for Trapped Electron Mode during dominant electron heating in EAST Tokamak	ZHANG, Xianmei	
[5931] P4.1087 Test particles dynamics, quasi-linear and nonlinear transport in low-frequency tokamak turbulence	MÉDINA, Julien	
[5930] P4.1086 Transport of Li and W impurities and their influence on discharge parameters of the T-10 tokamak	ZEMTSOV, Ivan	
[5939] P4.1095 Turbulent impurity transport in DIII-D plasmas with additional on-axis electron heating	ODSTRČIL, Tomáš	
[5938] P4.1094 Core impurity rotation in TJ-II plasma scenarios in which combined ECRH and NBI heating is used to mitigate impurity accumulation	LOPEZ-MIRANDA, Belen	
[5878] P4.1034 An exploration of a low temperature regime in EDGE2D-EIRENE simulations of JET ITER-like wall L-mode discharges	LAWSON, Kerry David	
[6006] P4.3012 Energy transfer pathways in CO₂-containing DC discharges	GUERRA, Vasco	
[5989] P4.2035 Radiation friction induced enhancement of laser-driven longitudinal fields for pushing the ion acceleration limit	GELFER, Evgeny	

[6004] P4.3010 Self-consistent 1D modelling of the CO₂ conversion in microwave discharges	KOTOV, Vladislav	
[6005] P4.3011 A two-dimensional study of the capacitively coupled plasma discharge considering the effects of multiphysics	SHON, Yejin	
[6002] P4.3007 Modelling of streamer propagation in dielectric liquids using a dense gas model	TRDLICKA, David	
[6003] P4.3009 A study of asymmetrical effects in a 3D Inductively Coupled Plasma discharge simulation of including multiphysics.	CHOI, EunHee	
[6000] P4.3005 Study of cavitation in liquid water under the action of inhomogeneous pulsed electric fields: application to sub-nanosecond electrical breakdown	ŠLAPANSKÁ, Marta	
[6001] P4.3006 Simulation of shock-waves in water induced by nanosecond-laser pulse	KUBEČKA, Martin	
[6008] P4.3014 Kinetic theory of gas discharge under condition of longitudinal pressure and electric field gradient	SEMENIUK, Natalia Stepanovna	
[6009] P4.3016 Modelling 1D Dielectric Barrier Discharge in Nitrogen Mixtures	CRISPIM, Lucas W S	
[5969] P4.2013 Relativistic laser pulse peak intensity evaluation based on vacuum acceleration of electrons	IVANOV, Konstantin	
[5872] P4.1028 Preliminary research on the island divertor configuration by applying 3/1 RMP in J-TEXT	WANG, Nengchao	
[5873] P4.1029 Manifold tracing for symplectic maps of magnetic field lines	CALDAS, Ibere Luiz	
[5870] P4.1026 High heat loads producing dust particles in the Alcator C-Mod tokamak	ARNAS, Cecile	
[5871] P4.1027 The EUROfusion JET-ILW pedestal database	FRASSINETTI, Lorenzo	
[5876] P4.1032 High bandwidth electron temperature measurements in DIII-D divertor	RUDAKOV, Dmitry L.	
[5877] P4.1033 Generation of supersonic plasma flow in DiPS-2	KANG, In Je	
[5875] P4.1031 Li solution of the steady-state problem of tokamak in the light of the last experimental results	MIRNOV, Sergey Vasilievich	
[5970] P4.2015 Structured plasmas for enhanced gamma emission at relativistic laser intensities	SAVEL'EV, Andrei	
[5977] P4.2022 Effects of strong external magnetic field on high-intense laser propagation into dense plasma	HATA, Masayasu	
[5976] P4.2021 Characterization of ellipsoidal plasma mirrors beyond the paraxial approximation	KUMAR, Deepak	
[6155] P4.2042 2D and 3D modeling of bright X-ray sources on LMJ	JACQUET, Laurent Maurice	
[5974] P4.2019 Anisotropic heating and magnetic field generation due to Raman scattering in laser-plasma interaction	SILVA, Thales	
[5961] P4.2005 Kinetic Simulations of Parametric Instabilities and Hot Electrons Production in the Context of the Shock Ignition	WEBER, Stefan	
[5918] P4.1074 Discharge recovery by means of EC assisted start-up	RICCI, Daria	
[5883] P4.1039 Exciting of MHD modes during the penetration of massive gas jet on J-TEXT tokamak	HUANG, Yuan	
[5882] P4.1038 Electromagnetic global gyrokinetic simulation for the analysis of MHD instabilities and turbulence	ISHIZAWA, Akihiro	

[5881] P4.1037 Optimizing 3D spectra for rotation control	LOGAN, Nikolas	
[5880] P4.1036 Analysis of Wendelstein 7-X divertor load symmetrization	LAZERSON, Samuel Aaron	
[5887] P4.1043 JOREK simulations of Shattered Pellet Injection with high Z impurities	HU, Di	
[5886] P4.1042 Fast and reliable reconstruction of the current distribution at ASDEX Upgrade	FISCHER, Rainer	
[5885] P4.1041 Improvements of magnetic diagnostic systems and bootstrap current characterization at the stellarator Wendelstein 7-X	RAHBARNIA, Kian	
[5884] P4.1040 Impact of ECCD on Alfvén Eigenmodes in the TJ-II stellarator	CAPPA, Álvaro	
[5889] P4.1045 Alfvén eigenmode driven by alpha particles and NBI energetic particles	GARCIA, Luis	
[5978] P4.2023 Formation of power law electron energy distribution in picosecond interaction of relativistic laser and dense plasma	SENTOKU, Yasuhiko	
[5874] P4.1030 Parameter dependence of small Edge Localized Modes	HARRER, Georg Friedrich	
[5971] P4.2016 Synchrotron emission from nanowire-array targets irradiated by ultraintense laser pulses	MARTINEZ, Bertrand	
[5966] P4.2010 Radiation-pressure-driven ion Weibel instability and collisionless shocks	GRASSI, Anna	
[5996] P4.3001 Non equilibrium vibrational and electron energy distribution functions in CO₂/CO cold plasma	PIETANZA, Lucia Daniela	
[5975] P4.2020 Calibration of a compact gamma ray spectrometer for an energy range of 4-20 MeV	SINGH, Sushil Kumar	
[5967] P4.2011 Realising single shot measurements of radiation reaction for inverse Compton sources	BAIRD, Christopher David	
[5847] P4.1002 Recent simulations of Toroidal Alfvén Eigenmodes on JET with the Gyrokinetic Toroidal Code	PORKOLAB, Miklos	
[6186] P4.1016 - Measurement of a tilting cylindrical probe in a RF magnetized plasma discharge	LEDIG, J.	
[5902] P4.1058 Gas assimilation during thermal quench and runaway beam phase	PAUTASSO, Gabriella	
[5903] P4.1059 ELM suppression characterisation by plasma response computation on ASDEX Upgrade	RYAN, David Anthony	
[5900] P4.1056 Tomographic inversion of Wendelstein 7-X stellarator plasmas	BRANDT, Christian	
[5901] P4.1057 Role of MHD activity triggered by fast ions in tungsten transport in JET hybrid discharges	GONICHE, Marc	
[5906] P4.1062 Properties of Alfvén waves in ohmic plasma in the TUMAN-3M tokamak	ABDULLINA, Gulnara I.	
[5907] P4.1063 Acceleration of beam ions during edge localized modes in the ASDEX Upgrade tokamak	GALDON-QUIROGA, Joaquin	
[5904] P4.1060 Plasma stability in a tokamak with $q \sim 1$ and forces acting on the conducting wall during disruption	MEDVEDEV, Sergey	
[5905] P4.1061 Numerical simulations of edge localised modes in MAST-U plasmas	SMITH, Siobhan Faye	
[5908] P4.1064 Threshold Effect In Tearing Mode Stabilization	FISCH, Nathaniel Joseph	
[5909] P4.1065 First results of plasma experiment on the spherical tokamak Globus-M2	MINAEV, Vladimir B.	

[6011] P4.4001 Filamentation of a short laser pulse in magnetized quantum plasma with spin polarization	KUMAR, Punit	
[6010] P4.3017 A Development of Atmospheric Pressure Dielectric Barrier-Discharge System Using Computational Tools	UZUN-KAYMAK, I. U.	
[6013] P4.4004 Effects of impurities and electron trapping in collisionless electrostatic shocks	PUSZTAI, Istvan	
[6012] P4.4002 New Developments of the Energy Conserving Semi Implicit (ECsim) method	LAPENTA, Giovanni	
[6015] P4.4007 Efficiency of the X-mode anomalous absorption in the plasma filament associated with the two upper-hybrid-plasmon decay	SIMONCHIK, Leanid	
[6014] P4.4005 Stability analysis of a periodic system of relativistic current filaments	VANTHIEGHEM, Arno	
[6017] P4.4009 (Ultra)cold ion-neutral collisions for new (astro)chemistry	HEJDUK, Michal	
[6016] P4.4008 Possibility of ion acceleration in ECR produced expanding plasma	VERMA, Anshu	
[6019] P4.4011 Gas breakdown in a focused beam of powerful sub-THz gyrotron	SIDOROV, Alexander	
[6018] P4.4010 Exploring astrophysical condition with ab initio kinetic PIC simulation	SHUKLA, Nitin	
[5869] P4.1025 Visible spectroscopy with liquid tin limiter on FTU plasma	APRUZZESE, Gerarda Maria	
[5946] P4.1101 Fast-ion transport study in the plasma periphery of ASDEX Upgrade using fast-ion D-alpha spectroscopy	JANSEN VAN VUUREN, Anton	
[5947] P4.1102 Non-local reduction of the electron heat flux and changes in impurities transport in certain T-10 experiments with W-limiter	NEUDATCHIN, Sergey	
[5868] P4.1024 Langevin approach for plasma-surface interaction: turbulent sputtering and surface morphology	REISER, Dirk	
[5944] P4.1099 Evolution of energy losses and of microturbulence at modulated ECRH of L-2M stellarator plasmas	BORZOSEKOV, Valentin	
[5945] P4.1100 Direct determination of background neutral density profiles from neutral particle analyzers	MITOSINKOVA, Klara	
[5942] P4.1097 Isotope effect in energy confinement in high density FT-2 tokamak regimes	KUPRIENKO, Denis	
[5943] P4.1098 Numerical investigation of fast-ion driven modes in Wendelstein 7-X	SLABY, Christoph	
[5940] P4.1096 Multi-species model for study of ion plasma filaments	POULSEN, Aslak Sindbjerg	
[5941] P4.1113 Simulation of penetration supersonic beam in fusion plasma using neutral/HESEL model	POULSEN, A. S.	
[5948] P4.1103 Rotation-induced electrostatic-potentials and density asymmetries in NSTX	DELGADO-APARICIO, Luis F.	
[5949] P4.1104 The helicity and the generation of large scale flows in confined plasma	SPINEANU, Florin	
[5865] P4.1021 Deuterium retention in tungsten with and without helium fuzz after irradiation by a pulsed high-temperature plasma	OGORODNIKOVA, Olga	
[5864] P4.1020 Requirements for an Imaging Heavy Ion Beam Probe at ASDEX Upgrade	BIRKENMEIER, Gregor	
[5867] P4.1023 Comparison of experimental and predicted divertor fluxes in W7-X scraper element mimic scenarios	LORE, Jeremy	

[5866] P4.1022 Neutral particle fluxes on the divertor during overload mimic scenarios in Wendelstein 7-X	LEVINESS, Alex	
[5861] P4.1017 Wavelet analysis of Mirnov coils signals for disruption prediction at JET	CANNAS, Barbara	
[5860] P4.1015 Collective Thomson Scattering in FTU: first comparison between numerical predictions and experimental observations	BAIOCCHI, Benedetta	
[5863] P4.1019 Atomic Beam Probe diagnostic for plasma edge current measurements at COMPASS	RÉFY, Dániel Imre	
[5862] P4.1018 The He/Ne beam diagnostic for active emission spectroscopy in the island divertor of Wendelstein 7-X	BARBUI, Tullio	
[5979] P4.2024 Influence of the peak density of near-critical gas targets on the spectrum features using ultra-high laser intensity through numerical modeling	TATOMIRESCU, Dragos Emilian	
[6025] P4.4019 Dependence of the Nonhelical Dynamo on Shear: Numerical Exploration of the Magnetic Shear-Current and Stochastic-alpha Effects	HANKLA, A.	
[6020] P4.4012 Mass to charge dependence of particle injection into DSA	HANUSCH, Adrian	
[6021] P4.4013 The reaction of O⁺ with HD at low temperatures	TRAN, Thuy Dung	
[6022] P4.4014 Accessing the Nonlinear Physics of Astrophysical Plasmas	SHALABY, Mohamad	
[6023] P4.4015 Kappa distributions: Theory and applications in plasmas	LIVADIOTIS, George	
[6024] P4.4018 High current gasdynamic electron cyclotron resonance ion sources with gyrotron plasma heating	SKALYGA, V. A.	