EPS 2019

Monday, 8 July 2019

Poster P1 - Building U6 (14:00 - 16:00)

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[3051] P1.1005 Impurity transport studies using TESPEL in W7-X stellarator	TAMURA, N.	
[3067] P1.1022 Intense and short bursts of whistler-frequency waves during the pedestal collapse in KSTAR H-mode plasmas	KIM, M.	
[3103] P1.1059 Non-linear MHD Simulations of ELMs in a Detached Divertor	HUIJSMANS, G.	
[3148] P1.2001 Self-Similar Multimode Evolution of the Ablative Rayleigh-Taylor Instability and Its Application in Inertial Confinement Fusion	ZHANG, H.	
[3198] P1.4007 3-dimensional modelling of lightning strike waveform C	CAMPBELL, J.	
[3189] P1.3018 First experiments on dusty plasmas in the D-Mag magnet	MELZER, A.	
[3644] P1.1038 Turbulence in open field-line helical plasmas: Fluid v. gyrokinetic	FRANCISQUEZ, M.	
[3064] P1.1019 Doppler coherence imaging of puffed nitrogen SOL flows	GRADIC, D.	
[3077] P1.1032 ELMFIRE Gyrokinetic study of turbulence and equilibrium asymmetries at the FT-2 tokamak edge	CHÔNÉ, L.	
[3072] P1.1027 Optimal conditions for alpha channelling in burning plasmas	CIANFRANI, F.	
[3073] P1.1028 Quantitative investigation of the neutron production in ASDEX Upgrade	KOLEVA, M.	
[3059] P1.1014 Plasma operation and electric field measurements in IShTAR	CROMBE, K.	
[3071] P1.1026 Reconstructing the fast-ion velocity distribution in the DIII-D tokamak during Alfven eigenmode activity	MADSEN, B.	
[3085] P1.1040 A local equilibrium model for tokamak plasmas: theory and applications.	RODRIGUES, P.	
[3113] P1.1069 Advances Towards Modeling a Simplified Lithium Vapor Box Design	EMDEE, E.	
[3096] P1.1052 Electromagnetic modelling of the reversed field pinch configuration	CAVAZZANA, R.	
[3106] P1.1062 Rotational instabilities of liquid metal droplets in tokamaks	SIMONS, L.	
[3116] P1.1072 Interaction between high-power ICRF waves and drift-wave turbulence in LAPD	CARTER, T.	
[3124] P1.1080 DIII-D high field side lower hybrid current drive: experiment overview	WUKITCH, S.J.	
[3090] P1.1045 High-resolution measurements of the internal kink eigenfunction during sawtooth-free (1/1) bursts and long-lived saturated modes	DELGADO-APARICIO, L.	
[3092] P1.1047 Non-linear MHD modelling of 3-D plasma edge with Resonant Magnetic Perturbations in DIII-D and ITER.	BECOULET, M.	
[3107] P1.1063 Plasma confinement by moving multiple mirrors	BE'ERY, I.	
[3130] P1.1086 Stability of microtearing modes	HAMED, M.	

[3135] P1.1091 Effect of relativistically intense laser pulses on magnetically confined fusion plasmas	BIERWAGE, A.	
[3136] P1.1092 Full exploitation of the HYMAGYC code for a shaped cross section scenario	FOGACCIA, G.	
[3138] P1.1094 The Role of Resonant Magnetic Field Penetration in Edge Localized Mode Suppression in the DIII-D Tokamak	NAZIKIAN, R.	
[3151] P1.2005 3D numerical simulation of magnetically-driven plasma fluxes generated in nested wire arrays	OLKHOVSKAYA, O.	
[3152] P1.2006 Pulse-periodic laser-driven hard x-ray source	FLEGENTOV, V.A.	
[3158] P1.2012 Helical light modes in the emitted spectrum of the laser plasma undulator	TETER, T.C.	
[3128] P1.1084 Tritium-concentration requirements in the fueling lines for high-Q operation in ITER	SCHUSTER, E.	
[3132] P1.1088 Edge stochastization and collisionality dependence of the L-H transition power threshold with applied n=3 resonant magnetic perturbations	SCHMITZ, L.	
[3184] P1.3013 Effect of applied frequency on the number of micro-discharge in dielectric barriers discharge	NILGUMHANG, K.	
[3171] P1.2026 Enhancement of fast electrons and energetic protons by intense short laser interactions with structured targets	CAO, L.	
[3166] P1.2021 X-ray absorption in plasma by one-photon stimulated bremsstrahlung with the exact consideration of Coulomb potential	GHAZARYAN, A.G.	
[3173] P1.3002 A new analytic solution to the collision free plasma equation with warm ions	KOS, L.	
[3159] P1.2013 Numerical simulations of the electromagnetic field shielding in petawatt regime using Finite-Difference Time-Domain method	IONEL, L.	
[3176] P1.3005 Charging of microparticles in a dc discharge in ground-based and microgravity experiments	ANTONOVA, T.	
[3179] P1.3008 Configurational temperature: Temperature and charge measurements in dusty plasmas	HIMPEL, M.	
[3181] P1.3010 Development of triple probe diagnostics for laboratory pulsed plasma	SRIVASTAVA, P.K.	
[3183] P1.3012 Dust ion-cyclotron surface waves in semi-bounded (r q) distribution dusty plasmas	JUNG, Y.	
[3076] P1.1031 Theory of external-infernal modes in high performance quiescent tokamak regimes	BRUNETTI, D.	
[3086] P1.1041 Progress on disruption event characterization and forecasting in tokamaks and supporting physics analysis	SABBAGH, S.A.	
[3721] P1.3021 Diffusion coefficient of tungsten atoms in argon	GEORGIEV, A.	
[3048] P1.1002 Assessment of the current density evolution during an ELM cycle using beam emission polarimetry at ASDEX Upgrade	DUX, R.	
[3050] P1.1004 The role of the plasma diagnostics in compacttraps: from ion sources to nuclear astrophysics research	CASTRO, G.	
[3055] P1.1010 Conceptual design of DTT magnetic diagnostics	BARUZZO, M.	
[3058] P1.1013 Tangential phase-contrast imaging for fluctuation measurements in JT-60SA: a conceptual study	CODA, S.	

[3068] P1.1023 The impact of nonlinear scattering effects on Doppler reflectometry and radial correlation Doppler reflectometry	KRUTKIN, O.L.	
[3066] P1.1021 First results from the Thomson scattering diagnostics on Globus-M2	KHODUNOV, I.A.	
[3070] P1.1025 Nonlinear Dynamics of Toroidal Alfvén Eigenmode in HL-2A H-mode Plasmas	CHEN, W.	
[3061] P1.1016 Design and development of probe for the measurements of runaway electrons inside the GOLEM tokamak plasma edge	DHYANI, P.	
[3053] P1.1007 Tomographic reconstruction of COMPASS tokamak edge turbulence from single visible camera data and automatic turbulence structure tracking	LEMOINE, N.	
[3080] P1.1035 Non-linear MHD simulations of pellet triggered ELMs in JET	FUTATANI, S.	
[3081] P1.1036 Numerical studies of nonlinear growth of double tearing modes in cylindrical geometry	GUO, W.	
[3088] P1.1043 A new instability and a new nonlinear MHD simulation pattern for rapid sawtooth crash	XU, L.	
[3082] P1.1037 The Ideal Evolution Equationand Fast Magnetic Reconnection	BOOZER, A. H.	
[3089] P1.1044 Operation in the quiescent regime with a high runaway electron current fraction on the EAST tokamak	ZENG, L.	
[3091] P1.1046 Dynamics and spectral properties of Turbulence-Driven Magnetic Islands	DUBUIT, N.	
[3093] P1.1048 High-n tearing mode dynamics in fast rotating RFP plasmas	BOLZONELLA, T.	
[3095] P1.1051 Modelling of non-linear edge harmonic oscillations and the effect of non-axisymmetric magnetic coils	BUSTOS RAMIREZ, G.	
[3097] P1.1053 Shaping effects on the interaction of shear Alfvén and slow sonic continua	CELLA, F.	
[3056] P1.1011 Runaway electrons expulsion during tokamak instabilities	CAUSA, F.	
[3140] P1.1097 High density hydrogen plasma for negative hydrogen ion production in HELicon Experiment for Negative ion source (HELEN-I)	PANDEY, A.	
[3708] P1.2004 Estimates of the radio isotope production from laser driven proton acceleration	BONVALET, J.	
[3709] P1.2017 Dissipative shock structures in dispersive systems – application in multicomponent plasmas	KOURAKIS, I.	
[3102] P1.1058 Phase relation between phase locked (2,1) and (3,1) tearing modes in ASDEX Upgrade	GUDE, A.	
[3104] P1.1060 Drift kinetic effects on the neoclassical tearing mode threshold	IMADA, K.	
[3110] P1.1066 Statistical modeling of heavy ions quasicontinuum in thermonuclear plasmas	LEONTYEV, D.S.	
[3112] P1.1068 Tokamak GOLEM for fusion education - chapter 10	MACHA, P.	
[3115] P1.1071 From a reflectrometry code to a standard EC code to investigate the impact of the edge density fluctuations on the EC waves propagation	BERTELLI, N.	
[3114] P1.1070 Nonlinear growth of ELMs driven by divertor currents	KNOLKER, M.	
[3118] P1.1074 Approaching the ion source parameters for ITER's NBI systems with the test facility ELISE	FANTZ, U.	

[3119] P1.1075 Parametric decay instabilities during electron cyclotron resonance heating at ASDEX Upgrade	HANSEN, S.K.	
[3120] P1.1076 Frist time neutral beam heating on Wendelstein 7-X	HARTMANN, D.A.	
[3122] P1.1078 Enhanced accessibility and absorption of helicon and lower hybrid waves in tokamak plasmas via n|| upshift from poloidal inhomogeneity	PINSKER, R.I.	
[3126] P1.1082 The operational space of the first divertor experiments in Wendelstein 7-X	FUCHERT, G.	
[3125] P1.1081 Multi-machine analysis of EU experiments using the EUROfusion Integrated Modelling (EU-IM) framework	FALCHETTO, G.L.	
[3127] P1.1083 Integrated code framework for operation scenario development with the global-optimizer-based iterative solver GOTRESS	HONDA, M.	
[3131] P1.1087 Dynamics of cold pulses induced by super-sonic molecular beam injection in the EAST tokamak	LIU, Y.	
[3133] P1.1089 Near-realtime tokamak scenario simulation with neural networks	VAN DE PLASSCHE, K.L.	
[3134] P1.1090 Enhancement of Nonlinear Regulation Dynamics in SMBI-stimulated L-H transition of HL-2A	ZHONG, W.	
[3139] P1.1095 Studies of Alfvén eigenmodes on JET with both experimental measurements with the AEAD and modelling with GTC	PORKOLAB, M.	
[3143] P1.1100 Current profile tailoring with the upgraded ECRH system at ASDEX Upgrade	FISCHER, R.	
[3149] P1.2002 Progress on weakly nonlinear hydrodynamic instabilities in spherical geometry	WANG, L.	
[3154] P1.2008 Relativistic polarized electron generation via plasma wakefield acceleration	JI, L.	
[3157] P1.2011 Inertial electrostatic confinement fusion neutron source with an externally applied magnetic field	WATANABE, M.	
[3160] P1.2014 A paradigm model for studying the nonstationary behavior of gyrotron backward wave oscillators	CHEN, S.	
[3161] P1.2015 Generation of few- and subcycle radiation at combination frequencies of ultrashort multicolor ionizing laser pulse	VVEDENSKII, N.	
[3167] P1.2022 A novel approach to the study of electron dynamics in colliding laser fields	KRASHENINNIKOV, S.	
[3172] P1.3001 2d-hybrid model for plasma accelerator with open walls and closed electron drift	LITOVKO, I.V.	
[3174] P1.3003 Analysis of initial stage of capillary discharge using numerical simulation	TIMSHINA, M.	
[3175] P1.3004 Characterization of aluminum oxide nanoparticle clouds in a rf discharge	KRÜGER, H.	
[3177] P1.3006 Computer simulation for an array based on capillary discharge	RYZHKOV, S.V.	
[3180] P1.3009 Determination of electron density in microwave plasma torch by microwave interferometry	FALTYNEK, J.	
[3185] P1.3014 Effect of electrode temperature on the generation of reactive gases and surface modification of polyimide film in an atmospheric dielectric barrier discharge plasma	LEE, M.	
[3186] P1.3015 Effect of size of charged object on the propagation characteristics of precursor solitons	ARORA, G.	

[3187] P1.3016 Electron capture by the exited hydrogen atom in the dense semiclassical partially ionized plasma	DZHUMAGULOVA, K.	
[3192] P1.4001 Gyrokinetics of electron-positron plasmas in a magnetic Z-pinch: towards a turbulence free plasma?	KENNEDY, D.	
[3193] P1.4002 Do we know how to simulate fusion plasma?	NATALIA, T.	
[3194] P1.4003 Excitation of a plasma wakefield by incoherent radiation via Compton scattering	DEL GAUDIO, F.	
[3195] P1.4004 Effects of involved laser photons on radiation and electron-positron pair production in one coherence interval in ultra intense lasers	ZHANG, B.	
[3199] P1.4008 Optimizing injection of positrons into a magnetic dipole trap	NISSL, S.	
[3201] P1.4010 Laser-driven shock compression of water ammonia and water-ethanol-ammonia mixtures to probe the interiors of icy giant planets	GUARGUAGLINI, M.	
[3200] P1.4009 Predicting the topology of self-organization in plasmas	CHEN, L.	
[3206] P1.4015 Transition to collisionality, magnetic fields generated by the Biermann battery and the Weibel instability	SCHOEFFLER, K.M.	
[3204] P1.4013 Different dynamic regimes of stimulated electron-cyclotron emission from mirror-confined non-equilibrium plasma	GOSPODCHIKOV, E.D.	
[3203] P1.4012 Characteristics of uphill diffusion with low frequency fluctuation in dipole magnetic field	KENMOCHI, N.	
[3047] P1.1001 Spectral structure and isotopic dependence of NBI ICE in the TUMAN-3M tokamak	ASKINAZI, L.	
[3049] P1.1003 Status of neutron emission spectroscopy diagnostics at the EAST tokamak	FAN, T.	
[3054] P1.1009 Feasibility study and physics performance of a fast-ion loss diagnostics for the JT-60SA tokamak	AYLLON-GUEROLA, J.	
[3057] P1.1012 Physics requirements for the VUV survey spectrometer intended for the divertor radiation monitoring on JT-60SA	CHERNYSHOVA, M.	
[3060] P1.1015 Development of gamma-ray spectrometers optimized for runaway electrons bremsstrahlung emission in fusion devices	DAL MOLIN, A.	
[3065] P1.1020 Study of statistical ELM properties by lithium beam emission spectroscopy on COMPASS	HACEK, P.	
[3069] P1.1024 Long range frequency sweeping of global Alfven eigenmodes	HEZAVEH HESAR MASKAN, H.	
[3074] P1.1029 Verification of neoclassical toroidal viscosity due to energetic particles	WANG, Z.	
[3075] P1.1030 Simulation of fast ion loss induced by magnetic islands in the EAST tokamak	YU, L.	
[3052] P1.1006 Local measurements of the radial plasma velocity fluctuations in the FT-2 tokamak core plasmas by equatorial enhanced scattering	GURCHENKO, A.	
[3078] P1.1033 Sawtooth activities in EAST neutral beam injection plasma	CHAO, Y.	
[3084] P1.1039 Gyrokinetic theory of the nonlinear saturation of toroidal Alfvén eigenmode	QIU, Z.	
[3087] P1.1042 Arc discharges at the plasma periphery during disruption in tokamak	SAVRUKHIN, P.	
[3094] P1.1049 Effect of a realistic boundary on the helical self-organization of the RFP	BONFIGLIO, D.	

[3706] P1.1050 Cross phase of edge-plasma fluctuations	KIM, C. B.	
[3099] P1.1055 Utilizing M3D-C1 to understand triggering of ELMs in pellet pacing experiments in DIII-D ITER-like plasmas	DIEM, S.	
[3100] P1.1056 Locked mode and disruption in JET-ILW	GERASIMOV, S.N.	
[3705] P1.1008 Fundamental O-mode ECRH assisted low-loop voltage plasma start-up in tokamak ADITYA-U	SHUKLA, B.	
[3079] P1.1034 Observation of radiation asymmetry during EAST mitigated plasma disruption by massive gas injection	DUAN, Y.M.	
[3062] P1.1017 An imaging heavy ion beam probe diagnostic for the ASDEX Upgrade tokamak	GALDON-QUIROGA, J.	
[3063] P1.1018 A plug-probe diagnostics for the measurement of electric field fluctuations in the turbulent state of the simply magnetised toroidal plasma device THORELLO	GHORBANPOUR, E.	
[3101] P1.1057 Runaway electron mitigation by n=1 and n=2 magnetic perturbations in COMPASS	GOBBIN, M.	
[3105] P1.1061 Rotation coupling of magnetic islands with different toroidal wave-numbers due to plasma viscosity in tokamak	IVANOV, N.	
[3108] P1.1064 Analysis of Gyrokinetic Model Collision Operator and Comparison with Braginskii Fluid Simulations	HALLATSCHEK, K.	
[3109] P1.1065 Anti-symmetric plasma fluid models with exact discrete conservation	HALPERN, F.D.	
[3111] P1.1067 A comparison of experimental and theoretical electron energy distribution functions in an argon GyM plasma	LAGUARDIA, L.	
[3117] P1.1073 Experiments on negative ion sources at the NIO1 installation	CAVENAGO, M.	
[3121] P1.1077 Adaptation and benchmarking of the pellet simulation code HPI2 for the stellarators TJ-II and W7-X	VELASCO, J.L.	
[3123] P1.1079 Possibility of strong anomalous absorption in electron cyclotron resonance heating experiments	POPOV, A.	
[3129] P1.1085 Intermittent plasma fluctuations in the Alcator C-Mod scrape-off layer in L H and I-modes	KUBE, R.	
[3137] P1.1093 Impact of shape and plasma physics constraints on performance of a tokamak fusion system	HONG, B.	
[3707] P1.1096 Sideways forces on the wall during early disruption phase in tokamak	MARTYNOV, A. A.	
[3141] P1.1098 Prospects for fuel ion ratio measurements in DT plasmas with compact neutron spectrometers	REBAI, M.	
[3142] P1.1099 Evaluation of tritium burn-up fraction for CFETR advanced scenario with the integrated simulations	DING, R.	
[3144] P1.1101 Pellet cloud expansion in hot plasmas	ALEYNIKOV, P.	
[3145] P1.1102 Simulation of ablation of Ne pellets and SPI in tokamaks	BOSVIEL, N.	
[3146] P1.1103 Channeling of neutral beam injection power into radio frequency waves	CASTALDO, C.	
[3147] P1.1104 First-principles simulation of plasma fuelling in a tokamak	COROADO, A.C.	
[3153] P1.2007 Double layer target with interface modulations for laser acceleration of collimated ion beams	MATYS, M.	

[3155] P1.2009 Physics of the chromatic focusing and post-acceleration of laser-driven protons by the target discharge current	MOREAU, J.G.	
[3156] P1.2010 Effects of Coulomb collisions in solid-density laser plasma shocks	SUNDSTRÖM, A.	
[3162] P1.2016 High-order harmonic generation in an electron-positron-ion plasma	ZHANG, W.	
[3163] P1.2018 High-order harmonic generation from the relativistic plasma resonance in an inhomogeneous plasma	METELSKII, I.I.	
[3164] P1.2019 Betatron radiation of high brightness from electron acceleration in the regime of laser bullet	LOBOK, M.G.	
[3165] P1.2020 Feasibility studies for all-optical and compact gamma-ray blaster by PetaWatt-class laser pulse and its application	ONG, J.	
[3168] P1.2023 Electromagnetic pulses generated from ultra-thin targets irradiated by the Vulcan Petawatt laser	RACZKA, P.	
[3191] P1.3020 Microwave pulse compression based on laser-induced breakdown	MAGUID, E.	
[3169] P1.2024 Magnetic field generation of kinetic plasma waves carrying orbital angular momentum	BLACKMAN, D.R.	
[3170] P1.2025 Diagnostic of forward fast electrons in femtosecond laser-foil interactions using terahertz radiation	LI, Y.	
[3182] P1.3011 Distinctive characteristics of electromagnetic force distributions in compressed plasma flows	VOLKOVA, Y.	
[3188] P1.3017 Toroidal plasmoid generation via extreme hydrodynamic shear	ALVES PEREIRA, F.	
[3190] P1.3019 Discharge initiation by a laser pulse in a vacuum gap	KATOROV, A.	
[3196] P1.4005 Design and progress toward realization of a high Tc superconducting levitated dipole experiment for electron-positron plasma studies	STONEKING, M.R.	
[3207] P1.4016 Magnetized Rayleigh-Taylor instability driving particle acceleration	CAPITAINE, J.	
[3205] P1.4014 Magnetosonic shocks in laboratory astrophysics experiments at the Prague Asterix Laser System	BOHLIN, H.	
[3202] P1.4011 Generation of gravitational waves using high-power lasers	LAGEYRE, P.	
[3197] P1.4006 Hidden momentum and conservation laws in relativistic spin-1/2 plasmas	EKMAN, R.	