

EPS 2019

Tuesday, 9 July 2019

Poster P2 - Building U6 (14:00 - 16:00)

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[3210] P2.1003 RFX-mod2: a Reversal Field Pinch device with edge transport optimization	VERANDA, M.	
[3211] P2.1004 Towards the ITER NBI: impact of the plasma parameters on the performances of a large ITER-like beam.	MARIO, I.	
[3214] P2.1007 Design and engineering overview of the Alborz Tokamak	GHASEMI, M.	
[3209] P2.1002 Generalization of the Heuristic Drift Model for Finite Collisionality	GOLDSTON, R.	
[3230] P2.1023 Symbolic Regression Analysis on the EUROfusion JET-ILW Pedestal Database	NAPOLI, F.	
[3231] P2.1024 Predictive modelling of the Be main chamber erosion in the JET-ILW	BORODIN, D.V.	
[3271] P2.1064 Validation of the BEAMS3D deposition model on Wendelstein 7-X	LAZERSON, S.A.	
[3275] P2.1068 Structure of island localized modes in Wendelstein 7-X	WURDEN, G.A.	
[3313] P2.2001 Determination of 100 TW femtosecond laser contrast from measurements of specular reflectivity from solid target	SAFRONOV, K.V.	
[3352] P2.3010 Investigation of radiation spectrum from pulse discharge in atmospheric pressure argon	MAYOROV, S.A.	
[3222] P2.1015 Recent Development of Wide-pedestal Quiescent H-mode on DIII-D	CHEN, X.	
[3248] P2.1041 Role of filaments in setting the SOL width in tokamaks	PERET, M.	
[3228] P2.1021 Analysis of Radial Electric Field and H-mode Transition based on Ion-Neutral Collisions	LEE, K.	
[3232] P2.1025 Real-time wall conditioning through B powder injection in fusion devices	BORTOLON, A.	
[3238] P2.1031 Impact of tungsten charge state bundling on scrape-off layer transport simulations in JET L-mode plasmas	KUMPULAINEN, H.	
[3246] P2.1039 Impact of incorporating nonlocal thermal transport in 1D modelling of the ITER SOL	WIGRAM, M.R.	
[3247] P2.1040 Non-axisymmetric heat flux patterns on tokamak divertor tiles	WINGEN, A.	
[3290] P2.1083 Transport studies at ASDEX Upgrade: Cold pulses local or non-local? NBI particle source important or not? Pellet fuelling in or out?	ANGIONI, C.	
[3291] P2.1084 1-dim Collisional Radiative impurity transport code with internal particle source for TESPEL injection experiments in RFX-mod2	CARRARO, L.	
[3261] P2.1054 ECE diagnostic measurements during first W7-X divertor campaign	HIRSCH, M.	
[3262] P2.1055 Analysis of Balmer alpha spectra in W7-X using FIDASIM	POLOSKEI, P.Z.	
[3266] P2.1059 ECCD effects on the divertor power distributions on W7-X	GAO, Y.	

[3270] P2.1063 Mode observations and confinement characterization during configuration scans in Wendelstein 7-X	ANDREEVA, T.	
[3284] P2.1077 Core transport studies in tokamak plasmas via surrogate-based optimization techniques	RODRIGUEZ-FERNANDEZ, P.	
[3285] P2.1078 Nonlocal transport in toroidal plasma devices in the presence of magnetic perturbations	SPIZZO, G.	
[3286] P2.1079 A new system of gyro-fluid equations with Onsager symmetry	STAEBLER, G.M.	
[3294] P2.1087 Scattering of radio frequency waves by plasma turbulence	RAM, A.	
[3296] P2.1089 Properties of density temperature and electric field structures in the turbulent regime of the simply magnetised toroidal plasma device THORELLO	BARNI, R.	
[3308] P2.1101 Homogenization and PCE method: Application in tokamak plasma	BAIRAKTARIS, F.	
[3297] P2.1090 Effect of the isotope mass on the turbulent transport of ASDEX Upgrade and JET-ILW L-modes edge	BONANOMI, N.	
[3327] P2.2015 Radiation reaction in the acceleration of particles by slowly modulated high-frequency large amplitude electrostatic waves	RIZZATO, F.B.	
[3328] P2.2016 High-energy photon generation in ultrarelativistic laser-plasma interactions	GREMILLET, L.	
[3372] P2.4010 Hamiltonian Formulation of the Non-perturbative Guiding Centre Equation	VALVO, L.	
[3370] P2.4008 Characterization of a TE ₁₀ -TM ₀₁ mode converter for microwave plasma interaction experiments.	RATHOD, P.J.	
[3366] P2.4004 Ion instability and off-axis equilibrium in a RF-sustained nonneutral plasma	MAERO, G.	
[3365] P2.4003 Selective excitation of Kelvin-Helmholtz modes with rotating electric fields	ROMÉ, M.	
[3362] P2.3020 Controlled CVD growth of MoTe ₂ and their use for photodetection	LUO, Z.	
[3360] P2.3018 Model to self-consistently describe the RF coupling in low pressure high power hydrogen ICPs	ZIELKE, D.	
[3339] P2.2027 The open-source PIC code SMILEI: Physics modules & HPC capabilities	GRECH, M.	
[3347] P2.3005 High-pressure gases breakdown in strong longitudinal magnetic fields	ALIVERDIEV, A.A.	
[3302] P2.1095 Spatiotemporal evolution of turbulent plasma density fluctuations and of their kurtosis value during modulated ECRH at the L-2M stellarator	BATANOV, G.	
[3323] P2.2011 Uphill acceleration in a spatially modulated electrostatic field particle accelerator	RUSSMAN, F.B.	
[3356] P2.3014 Laser diagnostics of helium low temperature plasmas using Stark broadening	LEE, W.	
[3351] P2.3009 Investigating the effect of different carrier gases on plasma-assisted multi-walled carbon nanotube growth	SHARMA, U.	
[3711] P2.3022 Study of polymerization process in a capacitively coupled discharge operating in aniline argon mixture	SCIACQUA, D.	
[3331] P2.2019 Laser pulse propagation in a collisional plasma in weakly-relativistic regime	SINGH, M.	

[3299] P2.1092 Temperature ratio dependence on turbulence-driven impurity transport in Wendelstein 7-X	WEGNER, T.	
[3212] P2.1005 A Compact Advanced Tokamak for a Steady State Fusion Pilot Plant	BUTTERY, R.J.	
[3213] P2.1006 Equilibrium and stability calculations of MAST spherical torus plasmas in preparation for MAST-U	BERKERY, J.W.	
[3215] P2.1008 Recent developments in the ITER Integrated Modelling Programme	PINCHES, S.D.	
[3216] P2.1009 Modification of SXB method for hydrogen isotopes in ITER main chamber	KHUSNUTDINOV, R.I.	
[3217] P2.1010 Spectral intensity of electron cyclotron radiation coming out of plasma in various regimes of ITER operation	MINASHIN, P.V.	
[3218] P2.1011 High-energy neutron characterisation of scintillator and solid-state detectors for lost fast ions measurements in JT-60SA and ITER	PERELLI CIPPO, E.	
[3219] P2.1012 Analysis of pumping conditions in DEMO-FNS	KUKUSHKIN, A.S.	
[3221] P2.1014 Overview of ST40 results and planned upgrades	BUXTON, P.F.	
[3223] P2.1016 Effects of fuelling profile on pedestal density profile	GROEBNER, R.J.	
[3225] P2.1018 The impact of symmetry breaking on pedestal stability of tokamak plasmas	ANASTOPOULOS, M.	
[3226] P2.1019 Effect of applied resonant magnetic perturbations on local plasma current density gradient and stability of m/n=2/1 magnetic island	YU, Q.	
[3227] P2.1020 Ion orbit losses in a radially resolved model of the H-mode barrier	DE BLANK, H.	
[3714] P2.1017 Active divertor flux control by the supersonic molecular beam injection with magnetic perturbations induced by lower hybrid waves on EAST	XU, S.	
[3229] P2.1022 Evidence for toroidal regulation of edge fluctuations by nonaxisymmetric $E_r \times B$ shear with applied 3D fields in the EAST tokamak	HU, G.	
[3233] P2.1026 Role of electric currents in the divertor target heat flux in ASDEX Upgrade analysed with Langmuir probes	BRIDA, D.	
[3234] P2.1027 Unraveling the coupling of divertor closure and impurity radiation in the first impurity seeding experiments in the new SAS divertor at DIII-D	CASALI, L.	
[3235] P2.1028 Insights into divertor profiles and fluctuations from two-dimensional probe measurements on the TCV tokamak	DE OLIVEIRA, H.	
[3236] P2.1029 Towards understanding the relative role of divertor geometry and magnetic topology on detachment	FIL, A.	
[3237] P2.1030 Characterization of divertor heat fluxes in partially detached L-mode plasmas at COMPASS	KOMM, M.	
[3239] P2.1032 Effect of high neutral density on radiation measurements in Alcator C-Mod	LOVELL, J.	
[3240] P2.1033 The key role of ExB drifts in W impurity transport and redeposition in the DIII-D divertor	NICHOLS, J.H.	
[3241] P2.1034 SOLPS-ITER simulations of the GyM linear plasma device	SALA, M.	
[3242] P2.1035 The dynamics of filaments in attached and detached SOL conditions using 3D simulations	SCHWÖRER, D.	
[3243] P2.1036 SOL and divertor power decay lengths across all confinement regimes at ASDEX Upgrade	SILVAGNI, D.	

[3244] P2.1037 ELM burn-through predictions for MAST-U Super-X plasmas	SMITH, S.F.	
[3245] P2.1038 Investigating the influence of molecules on power/particle/momentum balance in the detached TCV divertor	VERHAEGH, K.	
[3249] P2.1042 ELM electron temperature measurements on divertor compared to the pedestal temperature in the COMPASS tokamak.	ADAMEK, J.	
[3251] P2.1044 3D global impurity migration simulations with WalldYN and EMC3-EIRENE	BOCK, L.	
[3252] P2.1045 First SOLPS simulations for COMPASS Upgrade tokamak	BORODKINA, I.	
[3253] P2.1046 Towards applications of deep learning techniques to establish surrogate models for the power exhaust in tokamaks	BRENZKE, M.	
[3254] P2.1047 Arcing erosion effects and nanostructured "fuzz" growth on tungsten components under powerful plasma load in tokamak	BUDAEV, V.P.	
[3255] P2.1048 Reduction of intrinsic impurities by wall boronization in Wendelstein 7-X as observed by VUV spectroscopy	BUTTENSCHÖN, B.	
[3256] P2.1049 Sensitivity analysis of collisional processes in a detached plasma in Magnum-PSI with B2.5-Eunomia	CHANDRA, R.	
[3257] P2.1050 Global simulations of ion temperature gradient driven modes in Wendelstein 7-X with the gyrokinetic code XGC	COLE, M.	
[3258] P2.1051 Ion temperature profiles in NBI and ECRH heated W7-X plasmas	FORD, O.P.	
[3259] P2.1052 Fluid simulations of turbulence in stellarator geometries with BSTING	SHANAHAN, B.	
[3260] P2.1053 Investigation of higher harmonics of electron cyclotron emission in the W7-X stellarator	CHAUDHARY, N.	
[3264] P2.1057 Validation of radial electric measurements derived from Doppler reflectometry at Wendelstein 7-X	WINDISCH, T.	
[3265] P2.1058 Impact of impurity radiation locations on the plasma performance at W7-X stellarator	ZHANG, D.	
[3267] P2.1060 Impact of plasma pressure on the edge magnetic field of Wendelstein 7-X	KNIEPS, A.	
[3268] P2.1061 Stable completely detached plasma operation in the first island divertor experimental campaign of Wendelstein 7-X	KOENIG, R.	
[3269] P2.1062 Carbon counter-streaming flow studies of attached and detached plasmas in the Wendelstein 7-X island divertor	PERSEO, V.	
[3272] P2.1065 Dependence of the intrinsic toroidal current on heating power and density in the Wendelstein 7-X stellarator	NEUNER, U.	
[3273] P2.1066 MHD activity during the recent divertor campaign at the Wendelstein 7-X stellarator	RAHBARNIA, K.	
[3274] P2.1067 Parametric equilibrium reconstructions for Wendelstein 7-X with V3FIT	SCHMITT, J.	
[3276] P2.1069 Investigation of TESPEL cloud dynamics in Wendelstein 7-X stellarator	KOCSIS, G.	
[3277] P2.1070 Advanced RF heating schemes in preparation for ICRF heating and fast ion experiments in the W7-X stellarator	MACHIELSEN, M.	
[3279] P2.1072 Simulation study of the influence on Zeff under different gas puffing location for CFETR phase II	YE, M.	

[3280] P2.1073 Experimental observations of the avalanche-like electron heat transport events and their dynamical interaction with the shear flow structure	CHOI, M.J.	
[3281] P2.1074 Hierarchical approach to first principle based reduced transport models	FALESSI, M.	
[3282] P2.1075 Advances in Understanding Plasma Rotation and Ion Thermal Transport Using Main-ion Measurements in DIII-D	HASKEY, S.	
[3283] P2.1076 Integrated core transport modelling of multiple isotope pellet cycle at JET	MARIN, M.	
[3287] P2.1080 Study of heat transport in magnetic confinement devices using Transfer Entropy	VAN MILLIGEN, B.P.	
[3288] P2.1081 Ion heat channel at the L-H transition in JET-ILW	VINCENZI, P.	
[3289] P2.1082 Heavy impurity transport in tokamaks with plasma flows and saturated 3D perturbations	NETO, E.	
[3250] P2.1043 Investigating the role of hydrogen molecular effects on detachment using Magnum-PSI	AKKERMANS, G.	
[3377] P2.4016 Apparatus for investigating non-linear microwave interactions in magnetised plasma	BINGHAM, R.	
[3371] P2.4009 Electron Temperature Control in a Double Plasma Device by Selective Charging of Multi Grid Assembly	ALEX, P.	
[3376] P2.4015 Energy parameters of Cs-Ba triode in the unstable discharge mode	MUSTAFAEV, A.	
[3375] P2.4014 Cross-field chaotic transport of electrons by E X B electron drift instability in Hall thruster	MANDAL, D.	
[3374] P2.4013 Automodel solutions for nonlocal transport by Lévy walks in plasmas	KULICHENKO, A.A.	
[3373] P2.4012 Experimental investigation of the ordinary wave anomalous absorption in the plasma filament	SIMONCHIK, L.	
[3369] P2.4007 Alterations in anode sheath behavior in a leaky DC discharge system	BARNWAL, P.K.	
[3368] P2.4006 Analysis of sheath formation and charged species density in collisional electronegative warm plasma	DHAWAN, R.	
[3367] P2.4005 Supersolitary waves in electron-ion plasma?	HOSSEINI JENAB, S.	
[3364] P2.4002 Challenges in controlling perpendicular electric fields for crossed-field rotation	GUEROULT, R.	
[3363] P2.4001 Formation and stability of vortex structures in the flute mode turbulence	PAVLENKO, V.	
[3361] P2.3019 Electrode design for X-ray lithography fast shutter speed	TAMMAN, A.	
[3359] P2.3017 Lower-hybrid wave processes during the interaction of the Earth's magnetotail with dusty plasma near the lunar surface	MOROZOVA, T.I.	
[3358] P2.3016 Lower hybrid waves excitation by a relativistic electron beam in a magnetized dusty plasma: kinetic theory	DAHIYA, A.	
[3357] P2.3015 laser-driven synthesis of nanoparticles for therapeutic applications	RAFFERTY, C.	
[3354] P2.3012 Kinetics effects in a plasma crystal induced by an electron beam	TICOS, C.M.	
[3355] P2.3013 Large-scale ferromagnetic enhanced ICP in Ar/Cl ₂ mixture	ISUPOV, M.	
[3332] P2.2020 Efficient electromagnetic emission from plasma with continuously injected counterstreaming electron beams	VOLCHOK, E.P.	

[3333] P2.2021 Cylindrical fast electron beam in a plasma density gradient	NIROOZAD, M.	
[3334] P2.2022 Ignition requirement for HBRPA C6+ beam driven fast ignition	JOHZAKI, T.	
[3335] P2.2023 Resonantly accelerated electrons from a tightly focused laser beam	KLIMO, O.	
[3336] P2.2024 Effects of laser focusing on plasma channeling by ultrahigh intense laser in fast ignition	SAKAGAMI, H.	
[3337] P2.2025 Enhanced electron heating in picosecond relativistic laser-plasma interaction	SENTOKU, Y.	
[3338] P2.2026 Effect of Schott term in Lorentz-Abraham-Dirac equation	NAKAMURA, T.	
[3340] P2.2028 Laser-plasma instabilities in the shock ignition regime at the Vulcan TAW facility	CRISTOFORETTI, G.	
[3341] P2.2029 High charge electron acceleration from solid target	CHEN, L.M.	
[3342] P2.2030 Optimization of gamma-ray source driven by picosecond laser using gold foams	XIONG, J.	
[3343] P2.3001 Forced nonlinear vertical oscillations of a single dust particle trapped in a standing striation	KARTASHEVA, A.	
[3344] P2.3002 Forces applied on a spherical metal nanoparticle in a magnetized plasma	CHAMI, A.	
[3345] P2.3003 Functionalized porous silicon structures for promising plasma energy systems	MUSTAFAEV, A.	
[3346] P2.3004 Helix jet - a novel glow plasma jet for surface treatment and PECVD at atmospheric pressure	SCHÄFER, J.	
[3348] P2.3006 Influence of charged particles on a strong shock wave of a neutral component in a weakly ionized gas	TRIASKIN, J.V.	
[3349] P2.3007 Influence of radiation transport on discharge characteristics of an atmospheric pressure plasma jet in argon	VALIN, S.	
[3350] P2.3008 Inhomogeneity of structural and dynamic properties of dusty plasma structures	NIKOLAEV, V.S.	
[3353] P2.3011 Ion-acoustic waves in collisional dusty plasma: effects of grain charge fluctuations	MOMOT, A.	
[3292] P2.1085 Linkage between LHCD and density fluctuation in edge region on EAST	DING, B.	
[3293] P2.1086 ASCOT-AFSI simulations of fusion products for the main operating scenarios in JT-60SA	KURKI-SUONIO, T.	
[3295] P2.1088 A 6-field fluid model for the study of turbulence-driven magnetic islands and impurity transport	FRANK, J.	
[3298] P2.1091 Observations on edge GAM-turbulence interactions in ASDEX Upgrade	CONWAY, G.D.	
[3300] P2.1093 Properties of microtearing turbulence in the H-mode pedestal	PUESCHEL, M.	
[3301] P2.1094 Coexistence of magnetic island chains and resistive ballooning mode turbulence	NISHIMURA, S.	
[3303] P2.1096 Numerical simulations of intermittent fluctuations in 2D scrape-off layer turbulence	DECRISTOFORO, G.	
[3304] P2.1097 Correction of turbulent flow moments measured by Langmuir probes in the vicinity of the L-H transition in COMPASS	GROVER, O.	

[3305] P2.1098 Modelling of turbulent fluctuations measured in the TCV tokamak with gyrokinetic simulations and a synthetic phase contrast imaging diagnostic	IANTCHENKO, A.	
[3306] P2.1099 Upstream and downstream properties of turbulent transport at tokamak COMPASS	JIRAKOVA, K.	
[3307] P2.1100 Deuterium retention in liquid Sn samples exposed to D2 plasmas of GyM	PEDRONI, M.	
[3309] P2.1102 Control of sheared flow stabilized Z-pinch plasma properties with electrode geometry	L CLAVEAU, E.	
[3310] P2.1103 Contribution of the Hall effect to radial electric field and spontaneous/intrinsic rotation in tokamak core plasmas	LEVASHOVA, M.G.	
[3322] P2.2010 Shaping laser-wakefield beams through magnetic controlled particle injection	HELM, A.	
[3311] P2.1104 Pulse shape dependence of vapor shielding efficiency during transient loads	IBANO, K.	
[3312] P2.1105 Introduction of kinetic effects to 1-D SOL/divertor plasma fluid simulation by collaborating with a particle model	OBIKI, M.	
[3314] P2.2002 Thermal effects in a triplet and beam interaction in a plasma	PETER, E.A.	
[3315] P2.2003 Collective absorption of laser radiation in plasma at sub-relativistic intensities	TIKHONCHUK, V.T.	
[3317] P2.2005 Novel criteria for efficient Raman or Brillouin amplification of laser beams in plasma	TRINES, R.	
[3318] P2.2006 Evaluation of bubble detectors for characterising laser-driven neutrons	GREENWOOD, B.	
[3321] P2.2009 Self-modulated laser wakefield acceleration driven by CO2 laser in hydrogen plasma	KUMAR, P.	
[3324] P2.2012 Analytical and numerical approaches of bubble wakefield acceleration	KUMAR, S.	
[3325] P2.2013 Plasma bubble evolution related electron beam parameter estimation in laser wakefield acceleration	YADAV, M.	
[3326] P2.2014 Ponderomotive and resonant effects in the acceleration of particles by electromagnetic modes	ALMANSA, I.D.	
[3329] P2.2017 Radiation emission from twisted plasma acceleration	VIEIRA, J.	
[3330] P2.2018 RaDiO-Radiation Diagnostic for Osiris: an efficient radiation processing tool for particle-in-cell simulations	PARDAL, M.	
[3320] P2.2008 Density enhancement of microprojectiles and plasma streams produced at laser acceleration experiments	BORODZIUK, S.	
[3263] P2.1056 Acceleration of bayesian estimation of temperature and density profiles for W7-X	TRIMINO MORA, H.	
[3715] P2.4011 BO: A Unified Tool for Plasma Waves and Instabilities Analysis	XIE, Huasheng	
[3208] P2.1001 SPARC: Extending the high-field path to a net-energy tokamak	CREELY, A.J.	
[3319] P2.2007 All-optical staged acceleration of proton beams using helical coils	FERGUSON, S.	
[3710] P2.3021 Diffusion coefficients of nickel hydride molecule in hydrogen	DOBREV, G.	