

28th IAEA Fusion Energy Conference (FEC 2020)

Wednesday 12 May 2021

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[735] Gross and net erosion balance of plasma-facing components in full-W tokamaks	HAKOLA, Antti	
[1352] Integrated plasma state reconstruction, off-normal event handling and control, with application to TCV and ASDEX Upgrade	FELICI, Federico	
[696] Plasma Control and Safe Discharge Termination during Disruption in Tokamaks	SAVRUKHIN, Petr	
[1181] Ion Cyclotron Emission from the ohmically heated plasma in the TUMAN-3M tokamak	Dr LEBEDEV, Sergei	
[1210] Lithium Wall Conditioning Techniques in ADITYA-U Tokamak for Impurity and Fuel Control	Mr JADEJA, Kumarpalsinh	
[1323] Novel Approach to Estimate Plasma Current Density Profile with Magnetic Probes in ADITYA-U	AICH, Suman	
[776] Investigation of scattering of lower hybrid waves by tokamak boundary plasmas on Alcator C-Mod and EAST	BAEK, S. G.	
[1290] Novel Concept for Disruption Mitigation in the ADITYA - U tokamak by Fast Time Response Electromagnetic Driven Pellet Impurity Injector	GHOSH, Joydeep	
[678] Isotope effect in turbulent transport in high density FT-2 tokamak discharges	Dr KOUPRIENKO, Denis	
[1326] Spontaneous and triggered abrupt and non-local reduction of electron heat and density fluxes and ITB formation in T-10 tokamak plasmas with ECRH/ECCD	Dr NEUDATCHIN, Sergey	
[1231] Recent applications of 3-ion ICRF schemes on ASDEX Upgrade and JET in support of ITER	KAZAKOV, Yevgen	
[970] High density, high confinement, power exhaust compatible H-mode regime in TCV and ASDEX Upgrade	Dr FAITSCH, Michael	
[1232] Synopsis on the Unified Field Theory	Mr ZIEGLER, Gordon Lewis	
[621] Pulsed Power Technology for Driving Low Energy Plasma Focus device	Prof. ELARAGI, Gamal	
[1502] [REGULAR POSTER TWIN] Control of the X-point radiator in fully-detached ASDEX Upgrade H-mode plasmas	BERNERT, Matthias	
[1500] [REGULAR POSTER TWIN] Advances in understanding power exhaust physics with the new, baffled TCV divertor	THEILER, Christian	
[1498] [REGULAR POSTER TWIN] Experimental impurity concentrations required to reach detachment in AUG and JET	HENDERSON, Stuart	
[1494] [REGULAR POSTER TWIN] The Route to High Performance, DEMO relevant, Negative Triangularity Tokamak Operation on TCV	Dr PORTE, L.	
[1490] [REGULAR POSTER TWIN] Evolution of the electric potential and turbulence in OH and ECRH low-density plasmas in the T-10 tokamak	Prof. MELNIKOV, Alexander	

[1460] [REGULAR POSTER TWIN] Experimental Evidence of Magnetic Flux Pumping at ASDEX Upgrade	Dr BURCKHART, Andreas	
[1433] [REGULAR POSTER TWIN] Multi-machine SOLPS-ITER comparison of impurity seeded H-mode radiative divertor regimes with metal walls	Prof. ROZHANSKY, Vladimir	
[1432] [REGULAR POSTER TWIN] Simulations of turbulence, its suppression and profile evolution across the edge and scrape-off layer of the ASDEX Upgrade tokamak	Mr ZHOLOBENKO, Vladimir	
[1430] [REGULAR POSTER TWIN] Simulations of Edge Localized Mode (ELM) Cycles and ELM Control	HOELZL, Matthias	
[1425] [REGULAR POSTER TWIN] Core Key Technologies of Multi-Kilojoule Repeatable Laser System	Prof. KAWANAKA, Junji	
[1428] [REGULAR POSTER TWIN] Tripling the energy coupling efficiency from hohlraum to capsule on NIF	PING, Y.	
[1427] [REGULAR POSTER TWIN] Improving implosion energy coupling at the NIF	ZYLSTRA, Alex	
[1426] [REGULAR POSTER TWIN] Fast Ignition Laser Fusion Energy Research in Japan	Prof. KODAMA, Ryosuke	
[1424] [REGULAR POSTER TWIN] Overview of C-2W: High Temperature, Steady-State Beam-Driven Field-Reversed Configuration Plasmas	Dr GOTA, Hiroshi	
[1420] [REGULAR POSTER TWIN] Energy Deposition and Melt Deformation on the ITER First Wall due to Disruptions and Vertical Displacement Events	Dr COBURN, Jonathan	
[952] Sheared-Flow-Stabilized Z Pinch as a Compact Fusion Device	SHUMLAK, Uri	
[1109] Plasma flow suppression in the open magnetic traps by the helical mirror	SUDNIKOV, Anton	
[1280] The Gas-Dynamic Multimirror Trap Project	YAKOVLEV, Dmitry	
[620] Density incrustation at Au-CH interface	Dr BHATTACHARYA, Chandrani	
[942] Statistically Informed Physics Understanding and Design Optimization of Direct-Drive Inertial Confinement Fusion Experiments	Mr GOPALASWAMY, Varchas	
[784] Demonstration of direct fast heating of counter-imploded core plasma by LFEX laser	Prof. KITAGAWA, Yoneyoshi	
[1353] Investigating magnetic reconnection in ICF conditions	Dr FUCHS, julien	
[834] Hot electron and ion spectra on the blow-off plasma free target in the GXII-LFEX direct fast ignition experiment	Dr OZAKI, Tetsuo	
[747] An Alternative Fast Ignition Scheme by Standing Whistler-Wave Heating	SANO, Takayoshi	
[729] Conceptual design of laser fusion subcritical research reactor with J-EPoCH facility for fusion engineering researches	Dr IWAMOTO, Akifumi	
[922] Effects of turbulence in modifying helicon wave current drive propagation and efficiency	LAU, Cornwall	
[851] Role of drifts, impurities and neutrals for credible predictions of radiation and power flux asymmetries in the DEMO scrape-off layer	AHO-MANTILA, Leena	
[1320] Simulation Study of the Influence of flux expansion on the Detachment Sequence of HFS and LFS divertor targets	YE, Minyou	
[1316] Simulation Study of the Radiation Efficiency of Different Impurity in Divertor Plasma	MAO, Shifeng	
[1174] SOLPS analysis of necessary conditions for detachment cliff in HL-2M advanced snowflake minus and DIII-D conventional divertors	DU, Hailong	

[1284] Observation Of Electrostatic Confinement Of Runaway Electrons Using A Biased Electrode In ADITYA-U Tokamak	MACWAN, Tanmay	
[1313] Study of the ECR-heating influence on the anomalous transport of tungsten ions in T-10 plasma	Mr ZEMTSOV, Ivan	
[883] H-mode physics studies on TCV supported by the EUROfusion pedestal database	LABIT, BENOIT	
[665] Study of runaway electron dynamics at the ASDEX Upgrade tokamak during impurity injection using fast gamma-ray spectrometry	SHEVELEV, Alexander	
[887] ITER baseline scenario investigations on TCV and comparison with AUG	SAUTER, Olivier	
[1182] Ion Cyclotron Emission from NBI Heated Plasma in the TUMAN-3M Tokamak	ASKINAZI, Leonid	
[1312] Initial results of plasma potential and its fluctuation measurements in SOL region of Aditya-U tokamak by Laser Heated Emissive Probe	KANIK, Abha	
[1291] Investigation of Self-Absorbed Lithium Spectral Line Emissions during Li ₂ TiO ₃ Injection in ADITYA-U tokamak	YADAVA, Nandini	
[664] Status of activity on GOL-NB multiple-mirror experiment	Dr POSTUPAEV, Vladimir	
[868] Super-Sonic/Alfvénic Collision and Merging of Field-Reversed Configuration Plasmas	Prof. ASAI, Tomohiko	
[801] Overview of Merging Spherical Tokamak Experiments and Simulations for Burning, High-Beta and/or Absolute Minimum-B Plasma Formation	ONO, Yasushi	
[1209] Time correlation between low-energy, high-energy x-rays and neutron emission in plasma focus in the context of nuclear fusion mechanisms	Dr JAIN, Jalaj	
[618] Electron ion inverse bremsstrahlung absorption in laser fusion magnetized plasma	Prof. SID, Abdelaziz	
[893] Progresses of inertial fusion energy program at GPI Hamamatsu toward mini-reactor CANDY	MORI, Yoshitaka	
[992] Thermonuclear ignition and the onset of propagating burn in inertial fusion implosions	Ms CHRISTOPHERSON, Alison	
[728] Improvement of Ignition and Burning Target Design for Fast Ignition Scheme	NAGATOMO, Hideo	
[875] Theoretical scaling of fast isochoric heating for laser fusion	HIGASHI, Naoki	
[786] Efficient plasma heating by kilojoule petawatt lasers with a lateral confinement of fast electrons	IWATA, Natsumi	
[874] Efficient fast isochoric heating process visualized with spatial-temporal-resolved x-ray imaging	FUJIOKA, Shinsuke	
[1135] SIMULATION OF DIRECT-DRIVE TARGETS FOR MEGAJOULE LASER FACILITIES WITH ACCOUNT FOR NONLOCAL ELECTRON TRANSPORT, FAST ELECTRON GENERATION AND STIMULATED SCATTERING OF LASER RADIATION	KARLYKHANOV, Nikolai	
[1365] Why we need Integral Concepts to reach the challenges in physics of IFE Reaction Chamber	PERLADO, Jose Manuel	
[1002] Coupling plasma and neutral kinetic models: Considerations and solutions	WILKIE, George	
[709] Simulation of plasma and neutral particles during H gas puffing in the divertor region of GAMMA 10/PDX using the fluid and kinetic neutral code	Dr ISLAM, Md Shahinul	
[1287] Experimental Validation of Universal Plasma Blob Formation Mechanism	BISAI, Nirmal Kumar	

[1087] First attempt to quantify the recycling neutrals in W7-X by means of experiment-model comparison	Dr FENG, Yuhe	
[1164] Interpretative modeling of impurity transport and tungsten sources in WEST boundary plasma	CIRAOLO, GUIDO	
[1083] An Assessment of Alternative Divertors for the European DEMO	Dr MILITELLO, Fulvio	
[761] Design of EAST lower divertor by considering target erosion and W ion transport during the external impurity seeding	Prof. SANG, Chaofeng	
[742] Progress toward predictive modeling and in-situ monitoring of tungsten net erosion in tokamak divertor	Dr GUTERL, Jerome	
[1006] New predictive scaling formula for ITER's divertor heat-load width informed by gyrokinetic simulation, physics discovery, and machine learning	CHANG, Choongseok	
[804] Development of Simulation Codes to Treat Hydrogen Molecules Process in Divertor Plasma Region including Divertor Plate	Prof. NAKAMURA, Hiroaki	
[1029] ERO2.0, a code for three-dimensional modelling of global material erosion, transport and deposition in fusion devices	Dr ROMAZANOV, Juri	
[725] Improved screening effect of seeded high-Z impurity through SOL plasma flow enhanced by additional low-Z impurity injection	Dr YAMOTO, Shohei	
[1090] Modeling of ASDEX Upgrade detached divertor with radiating X-point by SOLPS-ITER	SENICHENKOV, Ilya	
[842] Linear Analysis of Cross-field Dynamics with Feedback Instability on Detached Divertor Plasmas	HASEGAWA, Hiroki	
[771] Modeling Snowflake Divertors in MAST-U Tokamak	Dr KHRABRYI, Aleksandr	
[637] Development of a far-SOL unstructured-mesh fluid-plasma transport solver for RF antenna simulations	LORE, Jeremy	
[1144] Progress in edge plasma turbulence modelling – hierarchy of models from 2D transport applications to 3D fluid simulations in realistic tokamak geometry.	Dr BUFFERAND, Hugo	
[1271] Investigation of Toroidal Rotation Reversal in Impurities Seeding ADITYA-U Tokamak Plasmas	GHOSH, Joydeep	
[908] Investigating the role of plasma-atom/molecule interactions on power, particle and momentum balance during detachment	VERHAEGH, Kevin	
[1084] The dependence of confinement on the isotope mass in the core and the edge of AUG and JET H-mode plasmas	SCHNEIDER, Philip A.	
[1540] Target fabrication technologies and noncontact delivery systems to develop a free-standing target factory operating in the repetition mode at the IFE relevant level	Dr KORESHEVA, Elena	IFE/P4-19