

# **48th EPS Conference on Plasma Physics**

**Monday, 27 June 2022 - Friday, 1 July 2022**

Online  
**Programme**

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# Monday, 27 June 2022

## Mon - Plenary Session: Conference Opening Ceremony & Alfvén Prizes (09:00 - 11:45)

-Conveners: Richard Dendy; Egbert Westerhof; Thomas Klinger

time	[id] title	presenter
09:00	[565] Conference Opening Ceremony	DENDY, Richard
09:30	[590] Interactions of Waves and Turbulent Eddies: "Truth and Consequences" for transport and dissipation	POUQUET, Annick
10:15	[65] Fascinating physics at the edge of magnetic fusion devices	KRASHENINNIKOV, Sergei
11:00	[78] Turbulent transport in magnetised plasmas	GARBET, Xavier

## Lunch break (11:45 - 13:20)

## Mon - Plenary Session (13:20 - 14:30)

-Conveners: Thomas Klinger; Egbert Westerhof

time	[id] title	presenter
13:20	[463] Deuterium-tritium experiments in JET with the ITER-like wall	MAILLOUX, Joelle
13:55	[156] The Design of "Hybrid-E," the first igniting (by lawson criterion) indirect-drive inertial fusion target	KRITCHER, Andrea

## Mon - Poster Session 1 (14:30 - 15:30)

## Mon - Poster Session 2 (15:30 - 16:30)

## Coffee break (16:30 - 17:00)

## Mon - MCF (D-T plasmas) (17:00 - 19:00)

-Conveners: Benoit Labit; Yevgen Kazakov

time	[id] title	presenter
17:00	[54] Tritium experiments in JET-ILW in support of JET and ITER D-T plasmas	MAGGI, Costanza
17:30	[195] The power threshold of H-mode access in tritium and deuterium-tritium plasmas at JET with ITER-like wall	BIRKENMEIER, Gregor
18:00	[287] Development of hybrid (high beta) plasmas for D-T operation in JET	CHALLIS, Clive
18:15	[559] High-frequency reversed-shear Alfvén eigenmodes in fast-ion experiments on JET	DREVAL, Mykola
18:30	[235] Experimental Investigations of the H-mode Access in Mixed Hydrogen-Deuterium Plasmas at ASDEX Upgrade	PLANK, Ulrike
18:45	[439] Developing understanding of spherical tokamaks with MAST Upgrade	SCANNELL, Rory

## Mon - LTDP (Plasma-Gas Conversion) (17:00 - 19:00)

-Conveners: Dragana Maric; David Pai

time	[id] title	presenter
17:00	[561] Renewable energy driven non-thermal chemistry: Plasma chemistry as the special case	VAN DE SANDEN, Richard

17:30	[27] Plasma technology for electrification of chemical reactions	BOGAERTS, Annemie
18:00	[511] Model analysis and experimental determination of noble gas metastable for plasma-assisted catalysis of ammonia	ABE, Shota
18:15	[560] Efficiency and conversion optimisation of tubular vortex flow stabilised microwave plasma reactors	SMITS, Felix
18:30	[352] Microwave Plasma at atmospheric pressure: Improving characteristic parameters of Biogas decomposition in an Argon Plasma	COBOS-LUQUE, Antonio
18:45	[51] On activation of the non-equilibrium vibrational CO <sub>2</sub> dissociation in plasma chemistry	KOTOV, Vladislav

### **Mon - BSAP (Astro-Plasma Turb.) (17:00 - 19:00)**

time	[id] title	presenter
17:00	[508] 3D turbulent reconnection and particle acceleration	LAZARIAN, Alex
17:30	[291] Particle energization in radiative relativistic plasma turbulence	ZHDANKIN, Vladimir
18:00	[146] A new model for the turbulent stress tensors from simulations of the magnetorotational instability.	MIRAVET-TENÉS, Miquel
18:15	[417] Fluid and gyrokinetic simulations of plasmoid formation in collisionless plasmas	GRANIER, Camille
18:30	[31] Spectral features and energy cascade of plasma turbulence at sub-ion scales	ARRÒ, Giuseppe
18:45	[308] Intermittent turbulence and complexity within reconnection exhausts in the solar wind	MIRANDA, Rodrigo

### **Mon - BPIF (Fusion) (17:00 - 19:00)**

-Conveners: Vladimir Tikhonchuk

time	[id] title	presenter
17:00	[587] Lawson criterion for ignition exceeded in an inertial fusion experiment	HURRICANE, O.
17:30	[13] Laser-Driven Proton-Boron Fusion and Applications	MARGARONE, Daniele
18:00	[266] High energy attosecond pulse interaction with matter and application to proton--Boron fusion	RIBEYRE, Xavier
18:15	[338] Thermal and ponderomotive filamentations of a high-power laser beam propagating through a long gas-filled target	LOISEAU, Pascal
18:30	[339] Scaling of hot electron generation from two plasmon decay instability	ROVERE, edoardo
18:45	[170] Optimisation of Polar Direct Drive Illumination for Mega-Joule Laser Facilities	BARLOW, Duncan

## Tuesday, 28 June 2022

### **Tue - Plenary Session (09:00 - 10:10)**

-Conveners: Dragana Maric; Thomas Klinger

time	[id] title	presenter
09:00	[404] Non-equilibrium as the cornerstone of collisional low-temperature plasmas: cross sections, kinetic phenomena and real world applications	PETROVIĆ, Zoran
09:35	[173] Improved understanding of energetic ions impact on plasma confinement from theory and experiments.	GARCIA, Jeronimo

### **Coffee (10:10 - 10:40)**

### **Tue - MCF (Stellarator) (10:40 - 12:40)**

-Conveners: Sergei Sharapov; Ivan Calvo

time	[id] title	presenter
10:40	[268] Turbulent impurity transport simulations in stellarators	GARCIA REGANA, Jose Manuel
11:10	[198] Radial electric fields, turbulence and transport studies in W7-X and TJ-II	ESTRADA, Teresa
11:40	[319] Isotope effects on transport and turbulence in LHD	KINOSHITA, Toshiki
11:55	[583] Impurity flow measurements with Coherence Imaging Spectroscopy at Wendelstein 7-X	PERSEO, Valeria
12:10	[214] Enhanced confinement after multi-pellet injection into neutral beam injection heated plasmas in the stellarator TJ-II	MCCARTHY, Kieran MELNIKOV, Alexander GARCÍA-CORTES, Isabel
12:25	[117] Transition from no-ELM response to pellet ELM triggering during pedestal build-up — insights from extended MHD simulations	FUTATANI, Shimpei

### **Tue - BSAP (Massive Objects) (10:40 - 12:40)**

-Conveners: Krzysztof Nalewajko

time	[id] title	presenter
10:40	[557] Fast radio bursts: the ultrastrong electromagnetic waves	BELOBORODOV, A.M.
11:10	[377] Kinetic model of Neutron Stars charge starved vacuum gaps	GRISMAYER, Thomas
11:25	[269] Generating inverted Landau level populations through radiation reaction cooling	BILBAO, Pablo Jaime
11:40	[532] General relativistic particle-in-cell simulations of compact neutron star magnetospheres	TORRES, Rui
11:55	[255] Prompt Emission Of High-Energy Nonthermal Photons From A Radiation-Dominated Relativistic Magnetic Reconnection	QIAO, Bin
12:10	[7] Reconnection in black hole magnetospheres	RIPPERDA, Bart

### **Tue - BPIF (Particle Acceleration) (10:40 - 12:40)**

-Conveners: Petra Koester; Ricardo A. Fonseca

time	[id] title	presenter
10:40	[55] Vacuum laser acceleration of super-ponderomotive electrons using relativistic transparency injection	SINGH, Prashant

11:10	[15] Ultra-bright laser-driven sources of MeV particles and radiation using low density foam	ROSMEJ, Olga
11:40	[144] Hosing of a long proton bunch induced by an electron bunch	NECHAEVA, Tatiana
11:55	[331] Experimental and numerical studies on laser-generated spin-polarised particle beams	GIBBON, Paul
12:10	[513] Hybrid plasma accelerators: towards high brightness beams	GILLJOHANN, Max
12:25	[361] Plasma wedge diffraction and vacuum particle acceleration by high intensity laser pulses	MARINI, Samuel

### **Tue - JS 1 - LTDP/MCF (PWI/NI) (10:40 - 12:40)**

-Conveners: Volodymyr Nosenko; Carlos Silva

time	[id] title	presenter
10:40	[11] Experimental advances to unveil the fundamental mechanisms of the interaction between charged particles and nuclear fusion relevant materials	MINISSALE, Marco
11:10	[528] Overview of SPIDER NBI source for ITER	SERIANNI, Gianluigi
11:40	[107] Spectroscopic observations and analysis of the Fulcher Bands of hydrogen and its isotopologues in divertor region of the ITER-like wall JET tokamak	PAWELEC, Ewa
11:55	[488] Ultra-Fast Langmuir Probe in Magnetised Plasma	HICKLING, Christopher J.
12:10	[89] Radio frequency wall conditioning discharges at low magnetic fields in Uragan-2M stellarator	KOVTUN, Yurii
12:25	[373] Sensitivity of scrape-off layer codes to modelling approaches	KRYJAK, Mike

### **Lunch / Break (12:40 - 14:30)**

### **Tue - Poster Session 1 (14:30 - 15:30)**

### **Tue - Poster Session 2 (15:30 - 16:30)**

### **Coffee (16:30 - 17:00)**

### **Tue - JS 2 - BSAP/MCF (Waves) (17:00 - 18:30)**

-Conveners: Basil Duval; Ken McClements

time	[id] title	presenter
17:00	[45] Wave propagation in rotating plasmas	GUEROULT, Renaud
17:30	[52] First high-power results from the DIII-D helicon system	VAN COMPERNOLLE, Bart
18:00	[97] Investigation of suprathermal electron transport induced by Electron-Cyclotron waves in tokamak plasmas	CAZABONNE, Jean
18:15	[464] Injecting positrons into an electron cloud – the next step towards a confined pair plasma	SINGER, Markus

### **Tue - BPIF (Lasers / Targets / Diagnostics) (17:00 - 18:30)**

-Conveners: Petra Koester; Michael Tatarakis

time	[id] title	presenter
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17:00	[17] Monoenergetic High-energy Ion Source via Femtosecond Laser Interacting with a Microtape	SHEN, Xiaofei
17:30	[95] Efficient Laser Wake Field electron acceleration with chirped intense laser pulses	PAPADOGIANNIS, Nektarios
18:00	[461] Deuterons and Neutrons from Cryogenic Deuterium Ribbons at Vulcan PetaWatt	HO, Chloe
18:15	[593] Advanced time-of-flight diagnostics for real-time characterization of ions accelerated by high energy lasers	SALVADORI, Martina

**Tue - MCF (Advanced Concepts) (17:00 - 18:30)**

-Conveners: Olaf Grulke; Yevgen Kazakov

time	[id] title	presenter
17:00	[401] The pursuit of net energy, MHD stability, and disruption resilience in the SPARC Tokamak	SWEENEY, Ryan
17:30	[551] Experimental study of the fast-ion confinement in W7-X based on FIDA spectroscopy	POLOSKEI, Peter Zsolt
18:00	[422] The Physics of the Preferred Plasma Scenario for STEP	MEYER, Hendrik
18:15	[148] Predict-first scenario modelling in support of the design of the Divertor Tokamak Test facility	CASIRAGHI, Irene

**Tue - MCF (Exhaust) (17:00 - 18:30)**

-Conveners: Nicola Vianello; Barbara Cannas

time	[id] title	presenter
17:00	[60] Particle balance and exhaust in Wendelstein 7-X	KREMEYER, Thierry
17:30	[531] Quantitative Balmer line analysis of multispectral imaging data to infer 2D maps of edge plasma parameters in TCV	PEREK, Artur
18:00	[466] A self-consistent cross-field transport model for edge plasma simulations: SOLEDGE modelling and comparison with WEST experiments	CIRAULO, Guido
18:15	[162] Physics Exploitation of the new Divertor Thomson Scattering at ASDEX Upgrade	CAVEDON, Marco



## Wednesday, 29 June 2022

### Wed - Plenary Session (09:00 - 10:10)

-Conveners: Dragana Maric; livia lancia

time	[id] title	presenter
09:00	[564] The journey to demonstrate the first iodine electric propulsion system in space	RAFALSKYI, Dmytro AANESLAND, Ane
09:35	[293] NON-LINEAR COSMIC RAY INDUCED PLASMA PHENOMENA IN ACCELERATORS, AROUND SOURCES AND AROUND GALAXIES	BLASI, Pasquale

### Coffee (10:10 - 10:40)

### Wed - LTDP (Plasma Water + Jets) (10:40 - 13:10)

time	[id] title	presenter
10:40	[505] Cold atmospheric pressure plasma in interaction with multiphase and reduced gravity environments	STANCAMPIANO, Augusto
11:10	[279] Plasma jets stabilize water to splash less	CHOE, Wonho
11:40	[562] High-order moment models for partially-ionized plasmas	ALVAREZ LAGUNA, Alejandro
12:10	[316] Deep Plasma Pulse Geo Drilling (PPGD) Performance	EZZAT, Mohamed
12:25	[433] Measurements and kinetic simulations of the Alternative Low Power Hybrid ion Engine (alphie)	GONZALEZ, Jorge
12:40	[133] Quantum dot photoluminescence as charge probes for plasma exposed surfaces	HASANI, Mohammad
12:55	[487] Towards the anticorrosion protection of aluminum surfaces by using an atmospheric pressure microwave plasma	RAYA BEJARANO, Andrés M.

### Wed - BPIF (HEDP / ICF / WDM) (10:40 - 13:10)

time	[id] title	presenter
10:40	[16] MITIGATION OF MAGNETO-RAYLEIGH-TAYLOR INSTABILITY USING DENSITY PROFILING AND EXTERNAL MAGNETIC FIELD IN GAS PUFF Z-PINCH PLASMAS	BEG, Farhat
11:10	[289] 3D Simulations Capture the Persistent Low-Mode Asymmetries Evident in Laser-Direct-Drive Implosions on OMEGA	COLAÏTIS, Arnaud
11:40	[410] Spectroscopic and x-ray diagnostics for warm dense matter and applications	FAJARDO, Marta
12:10	[506] Strong Laser-Driven Magnetostatic Fields for Investigations of Magnetized High Energy-Density Plasmas	SANTOS, Joao Jorge
12:25	[578] Hydrodynamic Instability of High-Energy-Density Plasmas under Laser-Produced Strong Magnetic Field	FUJIOKA, Shinsuke
12:40	[517] Spectroscopic characterization of core conditions in magnetized cylindrical implosion experiments	FLORIDO, Ricardo
12:55	[384] Relaxation of non-thermal electrons in solid density plasmas heated by the European X-ray free electron laser	WILLIAMS, Gareth

### Wed - MCF (Operation) (10:40 - 13:10)

time	[id] title	presenter
10:40	[42] Inter-machine comparison of SOL particle dynamics in ASDEX Upgrade and Wendelstein 7-X	GRADIC, Dorothea
11:10	[38] Boundaries of high density operation due to plasma edge turbulence in ASDEX Upgrade	EICH, Thomas
11:40	[271] First full-size turbulence simulations of diverted TCV plasmas and comparison with experiments	GALASSI, Davide
12:10	[76] Modelling of high field side high density region with the nonlinear MHD code JOREK with kinetic neutrals	KORVING, Sven
12:25	[407] SOLPS-ITER simulations of the initiation of an X-point radiator in the ASDEX Upgrade tokamak	PAN, Ou
12:40	[311] First MAST-U detachment results indicate enhanced role of molecules	VERHAEGH, Kevin
12:55	[164] Interpretative modelling of the target ion flux rollover in Conventional and Super-X divertor configurations on MAST Upgrade	MOULTON, David

### **Wed - MCF (Events) (10:40 - 13:10)**

time	[id] title	presenter
10:40	[186] Experiments and 3D simulations of hot VDEs and halo currents in ASDEX Upgrade	SCHWARZ, Nina
11:10	[495] Controlled avoidance of disruptions in tokamaks: experience and developments in TCV	PAU, Alessandro
11:40	[50] Impact of externally applied 3D magnetic perturbations on fast-ion confinement in the ASDEX Upgrade tokamak	GALDON QUIROGA, Joaquin
12:10	[194] Validation of 3D MHD simulations of mixed Ne-D <sub>2</sub> shattered pellet injection against H-mode experiments in JET	BONFIGLIO, Daniele
12:25	[120] Interpretative 3D MHD modelling of deuterium shattered pellet injection into a JET H-mode plasma	KONG, Mengdi
12:40	[128] Runaway dynamics in disruptions with current relaxation events	PUSZTAI, Istvan
12:55	[597] Theory of vertical displacements resonant at magnetic divertor X-points	PORCELLI, Francesco

### **Lunch / Break (13:10 - 14:30)**

### **Wed - Plenary Session (14:30 - 16:15)**

-Conveners: Jörg Hobirk

time	[id] title	presenter
14:30	[247] The dual role of the plasma boundary in tokamaks	WOLFRUM, Elisabeth
15:05	[142] Modelling of electron runaway in cooling fusion plasmas	FÜLÖP, Tünde
15:40	[371] Role of Energetic Ions in the ITER Research Plan	PINCHES, Simon

### **Coffee (16:15 - 16:45)**

### **Wed - Plenary Session (16:45 - 17:55)**

-Conveners: Salvatore Orlando

time	[id] title	presenter
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16:45	[90] Connecting the Dots: Understanding the Nature of Plasma and Liquid Interactions	GO, David
17:20	[203] Probing the plasma near supermassive black holes with the Event Horizon Telescope	WONG, George

# Thursday, 30 June 2022

## Thu - Plenary Session (09:00 - 10:10)

-Conveners: Jörg Hobirk

time	[id] title	presenter
09:00	[563] Probing extreme physics with plasma accelerators	MANGLES, Stuart
09:35	[224] Strongly coupled complex plasmas under microgravity conditions on the International Space Station	THOMAS, Hubertus

## Coffee (10:10 - 10:40)

## Thu - MCF (Pedestal/Edge) (10:40 - 12:40)

time	[id] title	presenter
10:40	[310] Pedestal particle balance studies in JET-ILW H-mode plasmas	HORVATH, Laszlo
11:10	[216] A quasi-continuous exhaust scenario for a fusion reactor: the renaissance of small edge localized modes	HARRER, Georg
11:40	[22] Extended gyrokinetic theory for the tokamak H-mode pedestal	DUDKOVSKAIA, Alexandra
11:55	[126] Small-ELM-regime access facilitated by a new tungsten divertor on EAST	XU, guosheng
12:10	[426] Impact of pellets on SOL and on SOL-pedestal coupling in JET-ILW	PEREZ VON THUN, Christian
12:25	[100] Pedestal structure and stability at peeling boundary in TCV	FRASSINETTI, Lorenzo

## Thu - LTDP (Plasma-Gas Conversion) (10:40 - 12:40)

time	[id] title	presenter
10:40	[229] On the coupling of vibrational and electronic excited state kinetics with the electron energy distribution function in CO <sub>2</sub> cold plasmas	PIETANZA, Lucia Daniela
11:10	[304] Insight into contraction dynamics in CO <sub>2</sub> microwave discharges through comparisons between simulations and experiments	DIOMEDE, Paola
11:40	[541] Particle charging by EUV and EUV-induced plasma	VAN DE KERKHOFF, Mark
11:55	[342] Drift-Diffusion modelling of a DBD volumetric reactor	PIEROTTI, Giacomo
12:10	[383] Dust charge distribution in a plasma afterglow	DENYSENKO, Igor
12:25	[397] Fast camera imaging of visible light: when the electron temperature matters	VINCENT, Simon

## Thu - JS 3 - BSAP/ESPD (Solar) (10:40 - 12:40)

time	[id] title	presenter
10:40	[206] Solar and stellar flares - recent advances and open questions	KLEINT, Lucia
11:10	[201] Revealing the Lagrangian Skeleton of Solar Atmospheric Dynamics	DE SOUZA E ALMEIDA SILVA, Suzana
11:40	[227] Turbulence induced by magnetic reconnection in the Earth's magnetosphere: numerical simulations and comparison with observations	PUCCI, Francesco
12:10	[44] MHD avalanches in magnetized solar plasma: proliferation and heating in coronal arcades	REID, Jack
12:25	[272] On the formation of multi-threaded prominences	JERČIĆ, Veronika

**Thu - MCF (Advanced Methods) (10:40 - 12:40)**

time	[id] title	presenter
10:40	[556] Magnetic Control of the TCV tokamak through Deep Reinforcement Learning	FELICI, Federico
11:10	[237] Integrated modeling of H-mode tokamak plasma confinement	LUDA DI CORTEMIGLIA, Teobaldo
11:40	[326] Examining Transport and Integrated Modeling Predictive Capabilities for Negative-Triangularity Scenarios	MCCLLENAGHAN, Joseph
11:55	[368] Reduced transport models for a Tokamak flight simulator	MURACA, Marco
12:10	[367] Increased core ion temperatures in high-beta advanced scenarios in AUG: Disentangling ExB-shear and fast ion effects using gyrokinetic simulations	REISNER, Maximilian
12:25	[260] Current ramp-up modelling for STEP	ERIKSSON, Frida

**Lunch / Break (12:40 - 14:30)****Thu - Poster Session 1 (14:30 - 15:30)****Thu - Poster Session 2 (15:30 - 16:30)****Coffee (16:30 - 17:00)****Thu - MCF (Improved Performance) (17:00 - 19:00)**

time	[id] title	presenter
17:00	[103] The increase in L-H power threshold due to externally applied non-axisymmetric magnetic perturbations in ASDEX Upgrade	WILLENSDORFER, Matthias
17:30	[220] High performance Ne-seeded baseline scenario in JET-ILW in support of ITER	GIROUD, Carine
18:00	[62] Core radiative collapse in WEST LHCD plasmas: characterisation and integrated modelling	OSTUNI, Valeria
18:15	[129] Understanding tungsten accumulation during ICRH operation on WEST	MAGET, Patrick
18:30	[93] Real time monitoring of pellet delivery to facilitate burn control in EU-DEMO	LANG, Peter
18:45	[520] Isotope Effects on Intrinsic Toroidal Rotation and Rotation Reversals	NAVE, Maria Filomena

**Thu - BPIF (QED & Acceleration) (17:00 - 19:00)**

time	[id] title	presenter
17:00	[154] Creating observable QED collective plasma effects	QU, Kenan
17:30	[36] Laser-plasma acceleration beyond the diffraction and dephasing limits	THAURY, Cedric
18:00	[49] Carrier-envelope phase controlled electron dynamics in a laser-wakefield accelerator	ROVIGE, Lucas
18:15	[59] Acceleration of positrons in plasmas with high energy efficiency	HUE, Celine
18:30	[364] Superradiant x-ray emission in ion channels	PARDAL, Miguel

18:45	[450] First experimental results of beam driven plasma wakefield acceleration at FACET-II: beam matching and gamma-ray radiation	SAN MIGUEL, Pablo
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**Thu - BSAP (Shocks) (17:00 - 19:00)**

time	[id] title	presenter
17:00	[12] Electron acceleration at supernova remnants	BOHDAN, Artem
17:30	[83] Studying plasma heating and particle acceleration in collisionless shocks through astrophysical observations	MICELI, Marco
18:00	[459] Radiatively cooled shocks in jets at the MAGPIE pulsed-power facility	RUSSELL, Danny
18:15	[400] Experimental and numerical investigations of ion acceleration by ultraintense laser pulses in near-critical transparent gas jets	VALERIA, OSPINA-BOHORQUEZ
18:30	[592] The non-resonant streaming instability: from theory to experiments	MARRET, Alexis
18:45	[456] Two stage acceleration of protons in the interaction of high-energy lepton flows with background plasma	ZHANG, Gaowei

**Thu - MCF (Alfvén) (17:00 - 19:00)**

time	[id] title	presenter
17:00	[264] Gyrokinetic simulation of internal kink and fishbone instabilities: verification and validation using DIII-D experiments, and prediction for ITER plasmas	BROCHARD, Guillaume
17:30	[312] Measurement and Simulation of Fast Ion Phase-space Flow Driven by Alfvén Instabilities	DU, Xiaodi
18:00	[295] Experimental observations of fast-ion losses correlated with Global and Compressional Alfvén Eigenmodes in MAST-U	RIVERO-RODRIGUEZ, Juan F
18:15	[393] Energetic particle modes in TCV with two neutral beam injectors	VALLAR, Matteo
18:30	[187] Global electromagnetic gyrokinetic simulations of Energetic Particle driven instabilities in ITER and ASDEX Upgrade	HAYWARD-SCHNEIDER, Thomas
18:45	[330] Fast-ion dynamics at ITER-relevant densities in ASDEX Upgrade measured with collective Thomson scattering	RASMUSSEN, Jesper

## Friday, 1 July 2022

### **Fri - Plenary Session (09:00 - 10:10)**

-Conveners: livia lancia

time	[id] title	presenter
09:00	[242] Measuring the H-He properties under Jupiter interior conditions: challenge, approach, data and implications	BRYGOO, Stephanie
09:35	[21] Learning Exchange-Correlation Functionals from Nature	VINKO, Sam

### **Coffee (10:10 - 10:40)**

### **Fri - LTDP (Complex Plasmas) (10:40 - 12:40)**

time	[id] title	presenter
10:40	[41] COMPACT - A new Complex Plasma Facility for the ISS	KNAPEK, Christina
11:10	[188] Influence of discharge parameters on the mode-coupling instability in two-dimensional complex plasma crystals	COUEDEL, Lenaic
11:40	[39] Two-dimensional complex (dusty) plasma with active Janus particles	NOSENKO, Volodymyr
11:55	[110] Experimental formation of fine-grained rims around chondrules in dusty protoplanetary environments	HYDE, Truell
12:10	[190] Plasma processing of nano and microparticles in Gliding Arc Tornado device	BARNI, Ruggero
12:25	[469] Artificial voids in nanodusty plasmas	GREINER, Franko

### **Fri - BSAP (Lab Plasma-Astro) (10:40 - 12:40)**

time	[id] title	presenter
10:40	[48] Laboratory evidence for proton energization by collisionless shock surfing	YAO, Weipeng
11:10	[25] Characterization of quasi-Keplerian, differentially rotating, free-boundary laboratory plasmas	VALENZUELA-VILLASECA, Vicente
11:40	[387] Characterization of low-density rear-driven collisional plasma jets from thin foils	PEREZ-MARTIN, Pablo
11:55	[596] Local characteristics of self-compressed plasma streams in external magnetic field	VOLKOVA, Yuliia
12:10	[476] Particle-in-cell simulations of laser-driven, ion-scale magnetospheres in laboratory plasmas	CRUZ, Filipe
12:25	[408] Collisional effects on ultrarelativistic beam-plasma instabilities	FAURE, Jérémy

### **Fri - MCF (Stellarator Turbulence) (10:40 - 12:40)**

time	[id] title	presenter
10:40	[320] Characterization of Turbulence, Zonal Flow, and Turbulent Transport Against Hydrogen Isotope Ratio in a Torus Plasma Experiment	OHSHIMA, Shinsuke
11:10	[66] Recognizing the hallmarks of the turbulent transport reduction by fast ions	MAZZI, Samuele
11:40	[99] From L-mode to the L-H transition, experiments on ASDEX Upgrade, gyrokinetic simulations and full-radius transport modeling	BONANOMI, Nicola

11:55	[179] Influence of safety factor on the radial electric field at the edge of tokamak plasmas	VERMARE, laure
12:10	[158] Saturation Physics in Negative- and Positive-Triangularity Plasmas	PUESCHEL, M.J.
12:25	[618] Zonally dominated dynamics and the transition to strong turbulence in ion-scale plasma turbulence	IVANOV, Plamen

### **Fri - BPIF (Machine Learning & Diagnostics) (10:40 - 12:40)**

time	[id] title	presenter
10:40	[554] Automated Laser Plasma Accelerators	STREETTER, Matthew
11:10	[43] Automated control and optimisation of high-intensity laser-solid interactions	PALMER, Charlotte
11:40	[595] Deep Learning for the modeling of electron nonlocal transport in plasmas	LAMY, Corisande
11:55	[515] Plasma-photonic response to electron beams as a versatile tool for plasma accelerators	KNETSCH, Alexander
12:10	[399] On the nature of electromagnetic pulse emission generated by short-pulse lasers and the possible mitigation methods	RACZKA, Piotr
12:25	[106] Looking into solid-density plasmas using attosecond XUV dispersion	SUNDSTRÖM, Andréas

### **Lunch / Break (12:40 - 14:30)**

### **Fri - Poster Session 1 (14:30 - 15:30)**

### **Fri - Poster Session 2 (15:30 - 16:30)**

### **Coffee (16:30 - 17:00)**

### **Fri - Plenary Session (17:00 - 18:10)**

-Conveners: Egbert Westerhof

time	[id] title	presenter
17:00	[14] Linear plasma devices as tools to study plasma surface interactions and divertor physics	MORGAN, Thomas
17:35	[588] Progress in Direct Drive Inertial Confinement Fusion: Conventional and Shock Ignition	BETTI, R.

### **Closing Session (18:10 - 19:00)**