

# 49<sup>th</sup> EPS conference on Plasma Physics

## Program

**Sunday, 2 July 2023**

14:00-18:00 **Badge & transportation card pick-up**

**Monday, 3 July 2023**

9:00-9:30 **Opening Ceremony**  
*Session Chair: K. Crombé*

9:30-10:10 **Alfvén Prize lecture**

10:10-10:40 **Coffee break**

10:40-12:40 **Plenary Session I**  
*Session Chair: S. Le Pape*  
I1.002: Isotope physics of heat and particle transport with tritium in JET-ILW H-mode plasmas  
*P. Schneider*  
I1.003: Particle acceleration in astrophysical, magnetized turbulent plasmas  
*M. Lemoine*  
I1.004: Ignition in the laboratory at NIF and routes to higher compression  
*D. Casey*

12:40-14:00 **Lunch break**

14:00-16:00 **Poster Session I (Mo\_MCF\*, Mo\_BSAP\*, Mo\_LTDP\* & Mo\_BPIF\*)**

16:00-16:30 **Coffee break**

	MCF	BSAP	LTDP	BPIF
16:30-18:30	<b>MCF</b> <i>Session Chair: S. Pinches</i> I1.101: MAST Upgrade Results Towards Integrating High Core Confinement and Divertor Power Dissipation <i>J. Harrison</i> I1.102: Development of long pulse high performance plasmas towards ITER and CFETR steady-state operation on EAST <i>J. Qian</i>	<b>Astrophysical plasmas</b> <i>Session Chair: C. Pfrommer</i> I1.201: Dynamics of IntraCluster Plasma: Transitioning to the New Era of High-resolution X-ray Spectroscopy <i>I. Zhuravleva</i> I1.202: How, where and when do cosmic rays reach ultrahigh energies? <i>J. Matthews</i> O1.201: The decay of MHD	<b>Magnetized low-temperature plasmas</b> <i>Session Chair: S. Tsikata</i> I1.301: Adaptive low-temperature plasmas <i>M. Keidar</i> I1.302: Kinetic modeling of the plasma-wall interaction in the divertor region <i>F. Cichocki</i> O1.301: Numerical and experimental investigations of a	<b>ICF</b> <i>Session Chair: R. Florido</i> I1.401: Effect of Strongly Magnetized Electrons and Ions on Heat Flow and Symmetry of Inertial Fusion Implosions <i>A. Bose</i> I1.402: Magnetized cylindrical plasma implosion experiments at OMEGA, NIF and LMJ laser facilities. <i>M. Bailly-Grandvaux</i>

	<p>I1.103: Turbulence prevents core particle depletion in stellarators <i>H. Thienpondt</i></p> <p>I1.104: Modelling of Vertical Displacement Events in tokamaks: status and challenges ahead <i>J. Artola</i></p>	<p>turbulence and the primordial origin of magnetic fields in cosmic voids <b>(PhD Research Award)</b> <i>D. Hosking</i></p> <p>O1.202: The mechanism of efficient electron acceleration at parallel non-relativistic electron-ion shocks <i>M. Shalaby</i></p> <p>O1.203: Particle acceleration at ultrarelativistic shocks in gamma-ray burst outflows <i>J.G. Kirk</i></p> <p>O1.204: A Paraxial Investigation of Resistive Relativistic Jet Dynamics <i>A. Loules</i></p>	<p>linear microwave plasma source for metal foil pumps for DEMO <i>S. Merli</i></p> <p>O1.302: Toroidal helicon plasma generation in TORPEX <i>S. Vincent</i></p> <p>O1.303: Role of ion magnetisation on the self-bias / floating potential in low-temperature plasma within a magnetic field up to 0.5T <i>P. Hired</i></p> <p>O1.304: Transport barriers and anomalous diffusion in a strongly magnetized, low-temperature plasma in the MDPX device <i>E. Thomas</i></p> <p>O1.305: Operation and stability of an emissive cathode in a high density plasma <i>F. Pagaud</i></p>	<p>I1.403: Neutron Spectroscopy and Suprathermal Ion Distributions in Burning Plasmas <i>B. Appelbe</i></p> <p>I1.404: Recent Progress in Cryogenic Direct-Drive Inertial Confinement Fusion on OMEGA <i>V. Gopalaswamy</i></p>
18:30-19:00	<b>Break</b>			
19:00-21:00	<b>Welcome Reception (Conference Center)</b>			

## Tuesday, 4 July 2023

8:50-9:30	<b>Innovation Prize lecture</b>			
9:30-10:10	<b>Pleanary Session II</b> <i>Session Chair: E. Kovacevic</i> I2.002: Interchange magnetic reconnection as the driver of the fast solar wind <i>J.F. Drake</i>			
10:10-10:40	<b>Coffee break</b>			
10:40-12:40	<b>MCF</b> <b>Turbulence and transport</b> <i>Session Chair: P. Schneider</i> I2.101: Confinement, turbulence and flow sensitivity to plasma current in tokamak plasmas <i>L. Vermare</i> I2.102: Prediction of core kinetic profiles and burning plasma performance with high-fidelity gyrokinetic simulations in tokamaks <i>P. Rodriguez-Fernandez</i>	<b>BSAP</b> <b>Laboratory plasmas</b> <i>Session Chair: M. Lemoine</i> I2.201: Electron holes in phase space: Recent Theory and Observation <i>I. Hutchinson</i> O2.201: Axion production in strongly magnetized plasmas <i>H. Terças</i> O2.202: Acceleration mechanisms in extreme photon-plasma interactions	<b>LTDP</b> <b>Plasmas for nanotechnology</b> <i>Session Chair: A. Borras</i> I2.301: Plasma technologies as a multipurpose toolbox for metal oxide nanosystem growth and tailoring <i>C. Maccato</i> I2.302: Plasma-synthesized nanostructured and functional films <i>U. Cvelbar</i>	<b>BPIF</b> <i>Session Chair: A. Debayle</i> I2.401: Ab-initio description of Warm Dense Matter <i>T. Dornheim</i> I2.402: Ultrafast dynamics of relativistic electron heating in high-power laser-produced solid-density matter <i>H. Sawada</i> O2.401: Influence of the solid-to-plasma transition on the laser

<p>12.103: Theory based scaling law of the L-mode and H-mode tokamak density limits and experimental validation <i>M. Giacomini</i></p> <p>02.101: Non-linear gyro-kinetic Ion Temperature Gradient and Trapped Electron Modes turbulence modelling in X-point geometry with Resonant Magnetic Perturbations <i>M. Becoulet</i></p> <p>02.102: Two-dimensional ne and Te measurements of the edge plasma turbulence in TJ-II <i>E. de la Cal</i></p>	<p><i>J.C. Faure</i></p> <p>02.203: Thermal equilibrium of non-neutral plasma in a magnetic dipole trap <i>P. Steinbrunner</i></p> <p>02.204: Collision rates estimated from exact N-body simulations <i>E. Gravier</i></p> <p>02.205: Beyond resonance broadening and quasilinear theory: towards Kubo &gt;1 <i>A. Guillevic</i></p> <p>02.206: Experimental study of energetic electrons in magnetic islands in DIII-D <i>E.G. Kostadinova</i></p>	<p>02.301: Recent results on the development of advanced plasma-assisted vacuum deposition <i>F. Aparicio</i></p> <p>02.302: Method to estimate the process parameters for plasma-enhanced atomic layer deposition using deep learning techniques <i>Y. Yook</i></p> <p>02.303: Towards the (bio)-synthesis of carbon nanostructures: understanding the decomposition of CO<sub>2</sub> in a microwave plasma at atmospheric pressure <i>A. Cobos-Luque</i></p> <p>02.304: Atmospheric-pressure microwave Ar/N<sub>2</sub> afterglow for heat-sensitive surface treatment <i>F.J. Morales-Calero</i></p>	<p>energy deposition in targets and subsequent hydrodynamics for direct drive inertial confinement fusion <i>R. Liotard</i></p> <p>02.402: Experimental investigation of SiO<sub>2</sub> foam-filled hohlraums for inertial fusion <i>S. Iaquina</i></p> <p>02.403: Optimization of Polar Direct Drive Illumination for Mega-Joule Laser Facilities <i>D. Barlow</i></p> <p>02.404: Simulations on the contribution of avalanche effect to gain generation from p-B11 fusion <i>C. Daponta</i></p>
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12:40-14:00 **Lunch break**

### Women/Inclusivity Meeting

14:00-16:00 **Poster Session II (Tu\_MCF\*, Tu\_BSAP\*, Tu\_LTDP\* & Tu\_BPIF\*)**

16:00-16:30 **Coffee break**

	MCF	BSAP	joint MCF/LTDP	MCF
16:30-18:30	<p><b>Disruptions and runaway electrons</b> <i>Session Chair: F. Felici</i></p> <p>12.104: Disruption avoidance and investigation of the H-Mode density limit in ASDEX Upgrade <i>B. Sieglin</i></p> <p>12.105: Benign Termination of RE Beams on ASDEX Upgrade and TCV <i>U. Sheikh</i></p> <p>12.106: Runaway electron dynamics in shattered pellet mitigated ITER disruptions <i>I. Pusztai</i></p> <p>02.103: Shattered Pellet Injection experiments at ASDEX-Upgrade for design optimisation of the ITER Disruption Mitigation System <i>S. Jachmich</i></p> <p>02.104: Magnetic measurements</p>	<p><b>Laboratory plasmas</b> <i>Session Chair: C. Kurantz</i></p> <p>12.202: From microscale physics to astrophysical-scale effects: Using experiments on Omega and the NIF to unravel the enduring enigma of astrophysical collisionless shocks <i>G. Swadling</i></p> <p>02.207: Laser-driven ion and electron acceleration from near-critical density gas targets <i>V. Ospina-Bohorquez</i></p> <p>02.208: Stellar opacities in the laboratory using a high intensity laser <i>H. Lahmar</i></p> <p>02.209: Generalized multi-temperature Zhdanov closure for the calculation of plasma transport coefficients</p>	<p><b>Plasma-materials physics</b> <i>Session Chair: H. Reimerdes</i></p> <p>12.303: Modeling of molecular kinetics in plasmas <i>A. Laricchiuta</i></p> <p>02.305: From surface production to extraction in negative hydrogen ion sources <i>Ch. Wimmer</i></p> <p>02.306: EFISH and LIF diagnostics of dielectric barrier discharge used for atomization of tin hydride <i>M. Mrkvivková</i></p> <p>12.304: Liquid tin interaction with deuterium plasmas <i>A. Manhard</i></p> <p>12.305: The physics of the MAST-Upgrade Super-X divertor <i>K. Verhaegh</i></p>	<p><b>Stellarators</b> <i>Session Chair: S. Henneberg</i></p> <p>12.107: Validation of pellet deposition physics by simulation/experiment comparisons on helical devices <i>N. Panadero</i></p> <p>12.108: From the Helically Symmetric eXperiment to a High Field Stellarator Fusion Power Plant <i>B. Geiger</i></p> <p>02.105: A new quasi-isodynamic stellarator configuration with good fast-ion confinement and reduced turbulent transport <i>E. Sánchez</i></p> <p>02.106: Density control with the water-cooled divertor in Wendelstein 7-X stellarator <i>G. Schlisio</i></p>

	of disruption forces on COMPASS <i>V. Yanovski</i>	<i>M. Raghunathan</i> O2.210: The electron cyclotron maser instability in laser ionised plasmas <i>T. Silva</i> O2.211: Probing ultra-fast ionization and homogenization of near-critical density foams at relativistic intensities at the HED/HiBEF instrument <i>A. Laso Garcia</i> O2.212: Collective Radiation Reaction in an Electron-Positron Bunch and Laser Collision <i>M.J. Quin</i>		O2.107: Time-scale dependence of turbulence and heat pulse propagation velocity <i>N. Kenmochi</i> O2.108: Drift effects in the scrape-off layer of the W7-X stellarator <i>M. Kriete</i>
18:30-19:00	<b>Break</b>			
19:00-21:00	<b>ITER Town Hall meeting (Conference Center)</b>			

## Wednesday, 5 July 2023

8:50-10:10	<b>Pleenary Session III</b> <i>Session Chair: A. Dinklage</i> I3.001: Formation and dynamics of the solar wind: new measurements from the inner solar system <i>T.S. Horbury</i> I3.002: Modeling of reactive plasmas for gas conversion <i>J. van Dijk</i>			
10:10-10:40	<b>Coffee break</b>			
10:40-13:00	<b>MCF</b> <b>Scenario development</b> <i>Session Chair: T. Bolzonella</i> I3.101: Progress in the ITER baseline scenario development on TCV <i>B. Labit</i> I3.102: Long sustained highly peaked ion temperature with internal transport barrier in KSTAR <i>H. Han</i> I3.103: Recent Experiments and Simulations to Develop Intrinsically Non-ELMing Enhanced Confinement Regimes <i>D.E. Ernst</i> O3.101: Model based formation of Advanced Tokamak discharges	<b>BSAP</b> <b>Space plasmas</b> <i>Session Chair: O. Alexandrova</i> I3.201: New Insights into Turbulence-Driven Magnetic Reconnection from NASA MMS <i>J. Stawarz</i> I3.202: Kinetic processes in fast collisionless plasma flows <i>O. Le Contel</i> O3.201: Flux Ropes, Turbulence, and Collisionless Perpendicular Shock Waves <i>G.P. Zank</i> O3.202: Kappa approach of the electron beam instabilities at the origin of radio emissions <i>M. Lazar</i>	<b>LTDP</b> <b>Low-temperature plasma modeling</b> <i>Session Chair: J. van Dijk</i> I3.301: Plasma-Surface Interactions in Atomic Layer Processing <i>D. Graves</i> O3.301: Secondary electron emission from surfaces at very low impact energies <i>F. Bronold</i> O3.302: Modeling Thermal Ionization in Hypersonic Shock Tubes <i>G. Colonna</i> O3.303: Computational Fluid Dynamics modelling of a	<b>BPIF</b> <b>Ultra-intense laser-plasma interaction</b> <i>Session Chair: J. Metzkes-Ng</i> I3.401: Generating electron-positron plasma in QED avalanches with ultra-high intensity lasers <i>A. Mironov</i> I4.402: Ion acceleration via RPA <i>S. Kar</i> O3.401: High precision probing of laser-solid interaction with laser-accelerated electron beams <i>M. Gilljohann</i> O3.402: Quantum beamstrahlung: a platform to precisely probe strong-field QED

	<i>R. Schram</i> O3.102: First global simulations of ITER 15MA Q=10 baseline scenario with D and T treated separately in the SOL/divertor <i>F. Eriksson</i> O3.103: Stationary ELM-free H-mode in ASDEX Upgrade ( <b>PhD Research Award</b> ) <i>L. Gil</i>	O3.203: Modelling Space Plasma in the Inner heliosphere and its impact on Earth Magnetosphere <i>B. Vaidya</i> O3.204: Evolution of nonlinear electrostatic structures in the lunar wake region <i>K. Singh</i> O3.205: Nonlinear structures in the Martian magnetosheath <i>S.S. Varghese</i>	microwave plasma torch for the synthesis of graphene <i>N. Mendoza</i> O3.304: Disclosed formation and role of electrostatic waves through 3D PIC simulation of High Stability Microwave Discharge Ion Source <i>L. Neri</i> O3.305: FENNECS: a flexible code to simulate non-neutral plasmas trapped in Penning-like annular potential wells <i>G. Le Bars</i> O3.306: Hydrodynamic simulations of plasma devices for compact particle-accelerator applications <i>G. Boyle</i> O3.307: Radiative transfer simulations for in-situ diagnostic of reactive, particle growing plasmas <i>J. Kobus</i>	<i>T. Grismayer</i> O3.403: New helical coil design with controlled dispersion for the post-acceleration and focusing of TNSA protons <i>A. Hirsch</i> O3.404: The E332 experiment at FACET-II: harnessing beam-plasma interaction for solid-density electron beams and extremely dense gamma-ray pulses <i>A. Matheron</i> O3.405: Positron generation and acceleration in a self-organized photon collider driven by ultra-short petawatt laser-plasma interaction <i>K. Sugimoto</i>
13:00-14:00	<b>Lunch break</b>			
14:00-18:00	<b>Time off</b>			

## Thursday, 6 July 2023

8:30-9:50	<b>Plenary Session IV</b> <b>Session Chair: B. DUval</b> I4.001: Results and implications of the TCV plasma exhaust (PEX) upgrade <i>H. Reimerdes</i> I4.002: Plasma polymerization mechanisms: applications and impact on related fields <i>D. Hegemann</i>			
9:50-10:10	<b>Coffee break</b>			
10:10-12:10	MCF <b>Edge &amp; divertor physics, plasma-wall interactions</b> <b>Session Chair: A. Hakola</b> I4.101: Compact radiative divertor experiments at ASDEX Upgrade and their consequences for a reactor <i>T. Lunt</i> I4.102: Validated edge and core	MCF <b>Core MHD and energetic particles</b> <b>Session Chair: P. Rodrigues</b> I4.104: Advanced energetic particle transport models <i>M. Falessi</i> I4.105: Clear observation of toroidal Alfvén eigenmode and cascades driven by alphas during	LTDP <b>Plasma processing and plasma chemistry</b> <b>Session Chair: D. Hegemann</b> I4.301: Magnetron Sputter Epitaxy: A Multi-Diagnostic Approach <i>A. Hinz</i> I4.302: Multiscale modeling of plasma-surface interactions	BPIF <b>Laser-plasma interaction and instabilities</b> <b>Session Chair: G. Lehmann</b> I4.401: Inverse Bremsstrahlung Absorption <i>D. Turnbull</i> I4.402: Raman amplification with a 1015 Wcm <sup>-2</sup> seed <i>J. Shaw</i>

<p>predictions of tungsten erosion and transport in JET ELMy H-mode plasmas <i>H. Kumpulainen</i></p> <p>I4.103: Investigating Negative-Triangularity Configurations as a Reactor Relevant Solution in the TCV Tokamak <i>O. Février</i></p> <p>O4.101: Experimental characterization of divertor filamentary dependencies in TCV and comparison with first-principles turbulence simulations <i>C. Wüthrich</i></p> <p>O4.102: Study of W impurity transport in the boundary plasma of EAST with different divertor conditions <i>R. Ding</i></p>	<p>recent JET DT experiments <i>M. Fitzgerald</i></p> <p>O4.103: Nonlinear simulation of energetic particle driven modes in ASDEX-Upgrade <i>H. Wang</i></p> <p>O4.104: Ion temperature gradient mode mitigation by energetic particles, mediated by forced-driven zonal flows <i>J.N. Sama</i></p> <p>O4.105: Resonant axisymmetric modes in tokamak plasmas <i>F. Porcelli</i></p> <p>O4.106: Prediction of energetic particle confinement in ITER operation scenarios <i>Z. Lin</i></p>	<p><i>L. Vialletto</i></p> <p>O4.301: Optimization of a negative oxygen ion beam <i>J. Han</i></p> <p>O4.302: Physics-Informed Advanced Plasma Equipment/Process Control Technologies for Plasma Applications <i>J.-S. Yoon</i></p> <p>O4.303: Hydrogen-Nitrogen Mixed Arc Plasma on Direct toluene conversion into C2 product <i>C. Jung</i></p> <p>O4.304: Water treatment using low temperature plasma with packed bed reactor at atmospheric pressure <i>X. Tang</i></p>	<p>O4.401: A steady-state approach to implementing laser-plasma instabilities in hydrodynamics codes <i>R. Nutter</i></p> <p>O4.402: Experimental campaign of laser plasma interaction on Shenguang Octopus laser facility <i>L. Zhichao</i></p> <p>O4.403: Predicting the growth of backward stimulated Brillouin scattering of smoothed laser beams <i>C. Ruyer</i></p> <p>O4.404: Measurement of magnetic cavitation driven by heat flow in a plasma <i>C. Arran</i></p>
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12:10-13:30 **Lunch break**

13:30-15:30 **Poster Session III (Th\_MCF\*, Th\_BSAP\*, Th\_LTDP\* & Th\_BPIF\*)**

15:30-17:30

MCF	BSAP	joint MCF/BSAP	BPIF
<p><b>Pedestal physics</b> <i>Session Chair: I. Voitsekhovitch</i></p> <p>I4.106: Understanding pedestal structure, stability and turbulent transport in D, DT and T plasmas in JET-ILW. <i>L. Frassinetti</i></p> <p>I4.107: H-Isotope Mass Scaling of Multiscale Transport in H-mode Pedestals <i>J. Candy</i></p> <p>I4.108: Improving H-Mode Access and Resilience for ITER Pre-Fusion Operation <i>L. Schmitz</i></p> <p>O4.107: A reduced transport model for microtearing modes in tokamak H-mode pedestal <i>M. Hamed</i></p> <p>O4.108: ELMy H-mode Helium plasma at JET-ILW <i>M. Maslov</i></p>	<p><b>Basic and astrophysical plasmas</b> <i>Session Chair: T. Passot</i></p> <p>I4.201: Small-scale reconnection and kinetic instabilities in turbulent space plasmas <i>D. Verscharen</i></p> <p>I4.202: Magnetars: the role of the magnetorotational instability and of the convective dynamo <i>J. Guilet</i></p> <p>O4.201: MHD spectroscopic analysis of the resistive tearing growth rate under the influence of background flow <i>J. De Jonghe</i></p> <p>O4.202: Chaos, Magnetic Fields, and the Cosmic Ray Anisotropy <i>V. López-Barquero</i></p> <p>O4.203: Coherent radiation via synchrotron cooled electron cyclotron maser emission <i>P.J. Bilbao</i></p> <p>O4.204: Limits on the</p>	<p><b>Laboratory space &amp; astrophysical plasmas</b> <i>Session Chair: R. Bilato</i></p> <p>I4.303: Creating Astrophysically Relevant Systems in the Laboratory in the High-Energy-Density Regime <i>C. Kuranz</i></p> <p>I4.304: Energy partition in collisionless shocks: a microphysical perspective <i>F. Fiuza</i></p> <p>I4.305: Similarities between nuclear fusion reactors and space vehicles <i>J.P. Gunn</i></p> <p>I4.306: Nonadiabatic frequency chirping Alfvén mode in fusion plasmas <i>X. Wang</i></p>	<p><b>Diagnostics</b> <i>Session Chair: D. Turnbull</i></p> <p>I4.403: Markers of Ignition: Nuclear Imaging in Inertial Confinement Fusion <i>V. Geppert-Kleinrath</i></p> <p>O4.404: X-ray synthetic diagnostics for ICF applications <i>F. Barbato</i></p> <p>O4.405: A spectroscopy method for high-energy photons in intense fields <i>K. Fleck</i></p> <p>O4.406: Spatiotemporal beam-plasma instabilities in the ultrarelativistic regime <i>Y. Mankovska</i></p> <p>O4.407: Talbot X-ray deflectometry and applications at HED facilities <i>V. Bouffetier</i></p> <p>O4.408: Guided Electromagnetic Discharge Pulses Driven by Short Intense Laser Pulses</p>



	compression of magnetic islands, a source of synchrotron radiation bursts in PIC simulations of strong-field 3D relativistic magnetic reconnection. <i>K.M. Schoeffler</i>		<i>M. Ehret</i>
17:30-18:00	<b>Break</b>		
18:00-22:30	<b>ConferenceDinner</b>		

## Friday, 7 July 2023

8:50-10:10	<b>Plenary Session V</b> <b>Session Chair: K. McClements</b> 15.001: Turbulence-optimized stellarator designs with improved ion confinement <i>G.T. Roberg-Clark</i> 15.002: Novel approach toward Inertial Confinement Fusion <i>R. Scott</i>			
10:10-10:40	<b>Coffee break</b>			
10:40-12:40	MCF	BSAP	LTDP	BPIF
	<b>Heating &amp; current drive and innovative data analysis techniques</b> <b>Session Chair: J. Hillairet</b> 15.101: Improving physical understanding and plasma performances with extensive experimental data analyses in WEST <i>J. Morales</i> O5.101: Real-time control of NBI fast ions, current-drive and heating properties <i>M. Weiland</i> O5.102: Digital twin of tokamak diagnostics for heat exhaust and confinement prediction <i>A. Medvedeva</i> O5.103: Latest High-Power Helicon Experimental Results from DIII-D <i>R. Pinsker</i> O5.104: ICRF wave propagation and absorption modelling via machine learning <i>A. Sánchez Villar</i>	<b>Laboratory astrophysics</b> <b>Session Chair: C. Palmer</b> 15.201: Direct measurement of non-thermal electron acceleration from magnetically driven reconnection in a laboratory plasma <i>L. Gao</i> O5.201: Laboratory Plasma Astrophysics at CERN <i>C.D. Arrowsmith</i> O5.202: Magnetized collisionless shock experiments, using a pulsed power driven magnetic piston from an exploding wire array <i>L.G. Suttle</i> O5.203: Supersonic radiation wave in doped low-density foam <i>G. Malamud</i> O5.204: Ponderomotive Recoil for Electromagnetic Waves <i>I.E. Ochs</i> O5.205: Ultrahigh-Pressure Generation in the Relativistic Transparency Regime in Laser Irradiated Nanowire Arrays	<b>Dusty plasmas</b> <b>Session Chair: M. Pustyl'nik</b> O5.305: Ex situ measurement of dust size distribution of nanoparticle growth process and comparison with in situ measurements <i>A. Petersen</i> 15.302: Laser-induced photodetachment for anions and particle (de-)charging diagnostics in low pressure nanodusty plasmas <i>J. Beckers</i> O5.301: Thermal fluctuations of strongly coupled dusty plasmas: a theoretical and experimental study <i>A. Dhaka</i> O5.302: Electron sticking of dielectric and metallic surfaces in the plasma sheath <i>A. Mengel</i> O5.303: Size evolution and plasma-particle interaction of single MF particles in the plasma	<b>Laser-plasma radiation and particle sources</b> <b>Session Chair: E. Gelfer</b> 15.401: Femtosecond electron microscopy of the laser-plasma wakefield <i>V. Malka</i> 15.402: Efficient electron acceleration via laser interaction with an overdense plasma wedge <i>S. Marini</i> O5.401: Spin-polarized ion beams from laser-plasma interaction <i>L. Reichwein</i> O5.402: Gamma photon and electron-positron production on the PETAL laser facility <i>F. Brun</i> O5.403: A multi-MeV alpha particle source from proton-Boron fusion reactions using a 10 GW tabletop laser. <i>V. Istokskaja</i> O5.404: Electron bunch seeding of the self-modulation instability in plasma <b>(PhD Research Award)</b>

	<p>O5.105: Performance of the ECRH system of Wendelstein 7-X with regard to long pulse operation and high performance plasmas in the campaign OP2.1 <i>T. Stange</i></p> <p>O5.106: Parameterisation of Microwave Beam Broadening by Plasma Density Turbulence <i>L. Holland</i></p>	<p><i>J.F. Ong</i></p> <p>O5.206: Adiabatic-radiative shock systems in astrophysical jets: from the gamma-ray sky to the laboratory <i>A. Araudo</i></p>	<p>sheath <i>S. Wohlfahrt</i></p> <p>O5.304: Experimental observations of fore-wake phenomena in between two charged object in flowing dusty plasmas <i>P. Bandyopadhyay</i></p>	<p><i>L. Verra</i></p>
12:40-14:00	<b>Lunch break</b>			
14:00-16:00	<b>Poster Session IV (Fr_MCF*, Fr_BSAP*, Fr_LTDP* &amp; Fr_BPIF*)</b>			
16:00-16:30	<b>Coffee break</b>			
16:30-17:50	<b>Plenary Session V</b> <i>Session Chair: C. Riconda</i> <hr/> <p>I5.003: Fluctuations in weakly magnetized plasmas <i>S. Tsikata</i></p> <p>I5.004: Supernovae Remnants and their interaction with external agents in the laboratory: how it structure the ISM <i>B. Albertazzi</i></p>			
17:50-18:30	<b>Closing Ceremony</b> <i>Session Chair: K. Crombé</i> <hr/>			