Invited and Orals		Thursday
I4.008	H. Wilson	Pedestal structure and stability in tokamak plasmas
I4.009	E. Tatarova	Microwave Plasmas Applied for Synthesis of 2D Carbon Nanostructures
I4.114	F. Tabares	Present Status of Liquid Metal Research for a Fusion Reactor
I4.115	H. Arnichand	Evidence of trapped electron mode contribution to fluctuation spectra and first applications to turbulence studies
I4.116	C. Bourdelle	Turbulent transport in tokamak plasmas: bridging theory and experiment
I4.117	R. Cesario	Active current drive for thermonuclear reactor
I4.118	W. Hornsby	Nonlinear gyro-kinetic simulation of Tearing modes
I4.209	J. Luis Martins	Modeling radiation emission in the transition from the classical to the quantum regime
I4.210	H. Chen	Relativistic electron-positron jets from intense lasers
I4.211	C. Murphy	Demonstration of nonlinear compton scattering from LWFA electrons
I4.212	A. Andreev	Relativistic laser nano-plasmonics
I4.307	E. Despiau-Pujo	Molecular dynamics simulations of plasma-surface interactions for advanced etch processes
I4.308	A. Bartnik	Photoionized plasmas induced with intense soft X-ray and extreme ultraviolet pulses
I4.309	R. Brinkmann	Modelling and Simulation of the Advanced Plasma Source
I4.310	D. Lundin	A new angle on the plasma discharge physics in magnetron sputtering
I4.407	D. Escande	N-body description of Debye shielding and Landau damping
I4.408	A. Beloborodov	Magnetospheres of neutron stars
I4.409	A. Stockem	Physics of collisionless shocks - theory and simulation
I4.410	V. Gryaznov	Thermodynamics of hydrogen and noble gas plasmas in mega- and multi-megabar pressure range under strong shock and isentropic compression
O4.115	T. Lunt	Optimization of the snowflake divertor by means of EMC3-Eirene simulations
O4.116	G. Calabro	TECXY modelling studies of alternative EAST magnetic configurations
O4.117	M. Umansky	Formation of axisymmetric plasma vortex at tokamak divertor null-point
O4.118	F. Reimold	The X-point radiation regime in detached H-Modes in full-tungsten ASDEX Upgrade
O4.119	D. Moulton	Pumping in vertical and horizontal target configurations on JET; an interpretive study using EDGE2D-EIRENE
O4.120	S. Espinoza	Is turbulence actually reduced at the tokamak edge pedestal?
O4.121	G. Dif-Pradalier	The Plasma Staircase: Turbulence Self-Regulation through Spontaneous Flow Patterning
O4.122	A. Zocco	Magnetic compressibility and ion temperature gradient driven microinstabilities in magnetically confined plasmas

O4.123	O. Gurcan	Turbulence modeling using shell models and similar k-space discretization for fusion plasmas
O4.124	K. Hallatschek	Gyrokinetic and Two-Fluid Tokamak Turbulence Simulations
O4.125	A. Popov	Two - plasmon decay as a reason for anomalous absorption and backscattering in second harmonic ECRH experiments
O4.126	C. Michael	Electron Cyclotron current drive studies on KSTAR using imaging MSE
O4.127	F. Felici	Real-time plasma profile state reconstruction on ASDEX-Upgrade
O4.128	A. Kappatou	Helium transport investigations at ASDEX Upgrade
O4.129	M. Sertoli	Interplay between central ECRH and MHD in mitigating tungsten accumulation in ASDEX Upgrade
O4.130	A. Loarte	Modelling of core tungsten transport and its control in ITER H-mode scenarios
O4.131	K. Imada	Finite banana width effect on NTM threshold physics
O4.132	Q. Yu	Study on sawtooth collapses using two-fluid equations
O4.133	M. Hole	Advanced MHD models of anisotropy, flow and chaotic fields
O4.134	F. Causa	Cherenkov diagnostic observations of fast electron losses in FTU and interpretation with gyrokinetic simulations
O4.135	A. Fil	Modeling of disruption mitigation by massive gas injection with JOREK and IMAGINE in JET and ASDEX Upgrade
O4.136	M. Gobbin	Runaway electron mitigation by resonant and non-resonant magnetic perturbations in RFX-mod tokamak discharges
O4.214	E. d'Humieres	Longitudinal laser ion acceleration in gas jets: experimental optimization on the Titan laser facility and numerical investigation of the ultra-high intensity limit
O4.215	R. Trines	A plasma compressor for ultrahigh HED physics driven by laser pulses with orbital angular momentum
O4.216	L. Amorim	Nonlinear wakefield structure of a hollow channel driven by a tightly focused positron bunch
O4.217	M. Roth	Towards highest peak intensities for ultra-short MeV-range ion bunches
O4.218	R. Prasad	Laser driven ion acceleration in ultra-high intensity regime using multiple beams
O4.219	D. Doria	Ion acceleration from ultrathin foils: dependence on target thickness and laser polarization
O4.220	A. Huebl	Simulating Multi-Scale Physics in Solid Target Laser-Ion Acceleration
O4.221	E. Boella	Ion shock wave acceleration in realistic laser-target scenarios
O4.301	A. Amaral Dias	N-graphene synthesis using N2-Ar remote plasmas
O4.302	X. Glad	Study of dust particle formation in low-pressure C2H2 ECR plasmas
O4.303	E. von Wahl	Electrical measurements for the control of nanoparticle growth in an acetylene plasma
O4.304	M. Cada	On characterisation of HiPIMS in reactive gas with advanced plasma diagnostics tool
O4.305	V. Granados Fernandez	Modelling and optimization of an electrohydrodynamic (EHD) thruster
O4.306	P. Ludwig	Dynamical screening and wake effects in classical, quantum, and ultrarelativistic plasmas
O4.307	N. Saini	Three dimensional dust ion acoustic rogue waves in a magnetized plasma
O4.308	B. Seznec	Modelling of microparticle transit between electrodes in High voltage in vacuum

O4.405	K. Schoeffler	Long time evolution of the Weibel instability
O4.406	B. McMillan	Implementation and application of an elegant strong-flow gyrokinetic formalism.
O4.407	M. Goldman	Theoretical interpretation of whistlers observed by Themis during magnetotail reconnection
O4.408	L. Gremillet	Radiation effects in ultra-relativistic, high-density pair shocks
O4.409	V. Krauz	Plasma focus as an effective tool for laboratory astrophysics: present status and prospects
O4.410	H. Pépin	Laboratory High-velocity, Laser-Driven, Magnetized, Collisionless Flows
O4.411	S. Giacche	Electron and positron acceleration in pulsar wind nebula
O4.412	A. Bret	Comparing collisionless shock formation in pair and electron/ion plasmas