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INSTITUTO DE PLASMAS
E FUSÃO NUCLEAR

42nd EPS Conference on Plasma Physics Portugal 2015

Conference Programme

ORGANIZED BY

TÉCNICO LISBOA

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		Large Heavy Ion Synchrotron Facility
P5.202	M. Shoucri	A Vlasov-code simulation of the amplification of seed pulses by Brillouin backscattering in plasmas
P5.203	T. Song	Design and Experimental Study of a Clean X-ray Radiation Source for High Energy Density Physics
P5.204	F. Mollica	Direct, real-time and sensitive plasma density diagnostic by quadriwave lateral shearing interferometry
P5.205	S. Ter-Avetisyan	MeV negative ion and neutral atom beam generation
P5.206	C. Ticos	Electron acceleration in gas jet at the CETAL Petawatt Laser Facility
P5.207	Z. Toroker	Backward Raman amplification in extended regimes of pump pulse parameters
P5.208	A. Tramontana	A transport beamline solution to control optically accelerated proton beams
P5.209	R. Trines	A plasma compressor for ultrahigh HED physics driven by laser pulses with orbital angular momentum
P5.210	M. Vranic	Intense laser propagation through underdense plasma channels with radiation reaction
P5.211	F. Wagner	Temporal contrast control at the PHELIX laser facility
P5.212	W. Wang	Multispectral x-ray imaging for imploded core temperature observation
P5.213	A. Woldegeorgis	Observation of terahertz radiation from a laser-driven ion accelerator by Smith-Purcell effect
P5.214	G. Wurden	Short-pulse thin-foil neutron generation experiments using the PHELIX laser
P5.215	B. Xu	The research of RM instability with radiatively driven shock
P5.216	X. Yang	Propagation of intense laser pulses in strongly magnetized plasmas
P5.217	J. Yang	Studies of the x-ray emission spectra from the low-density non-LTE Al plasmas in intense radiation
P5.218	R. Yi	Hot-electron generation by laser-plasma interactions in UN hohlraums
P5.219	R.J. Kingham	The Influence of Magnetized Electron Transport on Thermal Self-Focusing and Channelling of

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		Nanosecond Laser Beams
P5.220	W. Rozmus	Radiative heat transport instability in ICF plasmas
P5.221	V. Bychenkov	Multi-parametric study of ion energy scaling under optimum conditions of laser plasma acceleration
P5.222	S. Ghasemi	Improved non-isobaric relations for shock ignition fusion
P5.223	P. McKenna	Collective electron dynamics in relativistically transparent laser-foil interactions
P5.224	F. Del Gaudio	Numerical simulations of disruption effects from the interaction of electron-positron beams
P5.225	M.Afshari	Study of Hot Electron production in SI-relevant regime
P5.301	S. Ponyaev	Generation of plasma jets by small-size railguns
P5.302	N. Sakudo	Effect of bias voltage for plasma immersion implantation on the plasma potential
P5.303	C. Samir	Effect of electron temperature on magnetized plasma sheaths contaminated by multi-sized impurities
P5.304	D. Seok	Surface Dielectric Barrier Discharge for Powder Material Surface
P5.305	D. Tsyhanou	Conversion of methane to C2 hydrocarbons and hydrogen using microwave 'tornado'- type plasma
P5.306	M. Vasiliev	Microwave plasma treatment on bacterial and eukaryotic cells
P5.307	E. Apfelbaum	The calculations of electronic transport coefficients and pressure in Fe plasma
P5.308	Y. Arkhipov	Collective properties of one-component plasmas
P5.309	X. Koss	Analysis of the melting point of two- and three-dimensional Yukawa crystals
P5.310	X. Koss	Phase transitions in small systems with the screened Coulomb interaction potential
P5.311	P. Ludwig	Dust potential in a flowing magnetized plasma taking into account non-Maxwellian ions
P5.312	F. van de Wetering	Interaction of nanosecond UV laser pulses with complex plasmas
P5.401	T. Morozova	Dust-acoustic shocks in plasmas containing variable-charge impurities