

confID	Authors	Title
O2.001	<u>M. Lehnen</u> , A. Alonso, G. Arnoux, S. Bozhenkov, S. Brezinsek, T. Eich, K.H. Finken, A. Huber, S. Jachmich, U. Kruezi, P.D. Morgan, V.V. Plyusnin, C. Reux, V. Ric	First experiments on massive gas injection at JET - consequences for disruption mitigation in JET and ITER
O2.002	<u>C. Reux</u> , J. Bucalossi, F. Saint-Laurent, C. Gil, J.-L. Ségui	Experimental study of gas jet dynamics during disruption mitigation using massive noble gases injections on Tore Supra
O2.003	<u>G. Spizzo</u> , M. Agostini, A. Alfier, S. Cappello, P. Franz, R. Lorenzini, R. Paccagnella, I. Predebon, M. E. Puiatti, P. Scarin, M. Valisa, N. Vianello, M. Zuin	Investigation on the relation between edge electric radial field asymmetries in RFX-mod and Greenwald limit
O2.004	<u>G. Tardini</u> , R. Fischer, C. J. Fuchs, O. Gruber, A. Kallenbach, C. F. Maggi, R. Neu, T. Ptterich, F. Ryter, J. Schweinzer, A. C. C. Sips, J. Stober, E. Wolfrum,	Confinement enhancement in ASDEX Upgrade improved H-mode discharges with nitrogen seeding
O2.005	<u>A.Bottino</u> ,B.D.Scott,R.Hatzky,S.Jolliet,B.F.McMillan,T.M.Tran,L.Villard	Global electromagnetic gyrokinetic simulations of tokamak turbulence
O2.006	<u>F. Brochard</u> , N. Fedorczak, G. Bonhomme, F. Clairet, M. Farge, P. Ghendrih, J. Gunn, P. Hennequin, S. Heuraux, N. Lemoine, P. Monier-Garbet, R. Nguyen, S. Oldenb	A first comparison between probes, fast imaging, and reflectometry synchronous measurements of edge turbulence in Tore Supra
O2.007	<u>P. Buratti</u> , R.J. Buttery, C.D. Challis, F. Crisanti, M. Gryaznevich, T.C. Hender, D.F. Howell, E. Joffrin, J. Hobirk, F. Imbeaux, X. Litaudon, J. Mailloux, JET-	MHD stability limit analysis in JET high beta _N advanced scenarios
O2.008	<u>K.J.McCollam</u> , A.F.Almagri, J.K.Anderson, D.R.Burke, B.E.Chapman, G.Fiksel, C.B.Forest, J.A.Goetz, D.J.Holly, M.C.Kaufman, J.S.Sarff, A.H.Seltzman, D.R.Stone, A.	Current-Profile Control and Sustainment in the MST Reversed-Field Pinch
O2.010	<u>C. K. Li</u> , F. H. Séguin, J. A. Frenje, R. D. Petrasso, P. A. Amendt, R. P. J. Town, O. L. Landen, J. R. Rygg, R. Betti, J. P. Knauer, D. D. Meyerhofer, J. M. Sou	Observations of Electromagnetic Fields and Plasma Flow in Hohlräume with Proton Radiography
O2.011	<u>J. Sanz</u> , R. Betti, M. Olazabal-Loume, V. Drean, J. Feugeas, X. Ribeyre, V. Tikhonchuk	Analytical theory of double ablation fronts for direct drive ICF targets
O2.012	<u>J. L. Milovich</u> , P. Amendt, R.P. J. Town, O.L. Landen,C.K. Li, R.D. Petrasso	3-D Radiation-Hydrodynamic Simulations of Plasma Flows in Hohlräume
O2.013	<u>G.Clair</u> ,D.L'Hermite,L.Salmon	Experimental investigation and modelling of laser-induced plasmas under LIBS conditions
O2.014	<u>A.A.Chukalovsky</u> ,K.S.Klopovsky,T.V.Rakhimova	Modeling of residual atomic oxygen influence on the inversion of the lasing iodine transition in iodine-oxygen mixture
O2.015	<u>P.Zobdeh</u> ,R.Sadighi	New Progress in Electron generation by High Intense Laser-Plasma Interaction
O2.017	<u>J. Muñoz</u> , C. Yubero, M.S. Dimitrijevič, M. D. Calzada	Gas temperature Determination in Atmospheric Pressure Surface Wave Discharges from Atomic Line Broadening
O2.018	Imbeaux	Real time control of stationary states of the current profile on the Tore Supra tokamak

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O2.019	Y. Sun	Toroidal rotation braking with low n external perturbation field on JET
O2.020	E. Solano	Study of High Temperature Pedestals in hot ion H-mode in JET
O3.019	<u>M. C. Kaluza</u> , S. M. Pfothenauer, O. Jäckel, J. Polz, H.-P. Schlenvoigt, J. Heymann, S. Steinke, A. P. L. Robinson	Multi-stage laser ion acceleration
O3.020	<u>M. Murakami</u> , M. Tanaka, K. Mima	Abundant generation of quasimonoenergetic ions by Coulomb explosions of nanoclusters with optimized structure
O3.021	<u>M. Grech</u> , S. Skupin, R. Nuter, E. Lefebvre	Monochromatic Ion Beams by Peta-Watt Laser Pulses The Concept of a Linear Plasma Accelerator
O3.022	<u>G.Travaillé</u> , O.Peyrusse, B.Bousquet, L.Canioni, K.MichelLePierres, S.Roy	Collisional-Radiative approach of the radiative state of Laser-Induced Breakdown Spectroscopy plasmas sources
O3.023	<u>E.Tatarova</u> , E.Felizardo, F. M. Dias, M.Lino da Silva, C. M. Ferreira, B.Gordiets.	Balmer Lines Broadening in Microwave Plasmas
O3.024	<u>K. Yu. Catsalap</u> , E. A. Ershov-Pavlov, K. L. Stepanov	Diagnostics of laser-induced plasma by self-reversal profiles of emission lines
O3.025	I. Zhelyazkov	Parallel propagation of Hall magnetohydrodynamic waves and their stability in flowing solar structures
O3.026	<u>N. Leprovost</u> , E. Kim	Dynamo with flow shear and magnetic shear
O3.027	<u>N. Sen</u> , D. L. Newman, M.V. Goldman	Simulation studies of ion heating by bipolar fields and ion Bernstein waves
O4.028	<u>F. Villone</u> , Y. Q. Liu	RWM analysis with 3D conductors, plasma flow and kinetic damping
O4.029	<u>M. Turnyanskiy</u> , S. D. Pinches, A. J. Akers, A. Bovet, C. D. Challis, M. De Bock, N. J. Conway, G. Cunningham, C. A. Michael	Off-axis NBCD experiments on MAST
O4.030	I. Chapman	PhD Prize Lecture
O4.031	<u>L. Gremillet</u> , F. Perez, M. Drouin, E. Lefebvre, T. Vinci, S. D. Baton	Heating of reduced-mass targets by laser-accelerated fast electrons
O4.032	C.Thaury	PhD Prize Lecture
O4.033	<u>S. P. D. Mangles</u> , S. Kneip, S. R. Nagel, S. Martins, C. Bellei, O. Cheklov, R. J. Clarke, A. E. Dangor, N. Delerue, E. J. Divall, G. Doucas, K. Ertel, F. Fiuza, R. Fonseca, P. Foster, S. J. Hawkes, R. Heathcote, C. J. Hooker, K. Krushelnick, W. B. Mori, C. Palmer, K. Ta Phuoc, P. Rajeev, J. Schreiber, M. J. V. Streeter, D. Urner, J. Vieira, L. O. Silva, and Z. Najmudin	Near-GeV acceleration of electrons by a non-linear plasma wave driven by a self-guided laser pulse
O4.034	T. Lunt	PhD Prize Lecture

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O4.035	<u>C.Mézel</u> , L.Hallo, A.Souquet, J.Breil, D.Hébert, A.Bourgeade, F.Guillemot, O.Saut	Toward a new nanoLIFT transfer process
O4.036	<u>V. Guerra</u> , P. A. Sá, J. Loureiro	Self-consistent modeling of Ar-O2 discharges
O4.037	<u>Eun-jin Kim</u> , H. Liu, J. Anderson	Probability distribution function of self-organization of shear flows
O4.038	<u>M. Gilmore</u> , T.R. Hayes, S. Xie, L. Yan, C. Watts	Chaos, Intermittency, and Sheared Flow Dynamics Under Biasing and Boundary Condition Changes in a Magnetized Laboratory Plasma
O4.039	<u>F. Paolini</u> , E. L. L. Cabral, A. dos Santos	Effective Short Range Coulomb Interaction in Ion Dynamics
O4.040	<u>A. Casati</u> , T. Gerbaud, P. Hennequin, C. Bourdelle, J. Candy, F. Clairet, X. Garbet, V. Grandgirard, Ö. D. Gürçan, S. Heurax, G. T. Hoang, C. Honoré, F. Imbeaux	Turbulence in Tore Supra plasmas measurements and validation of nonlinear simulations
O4.041	Zhihong Lin	Nondiffusive Electron Transport in Multi-Scale Turbulence
O4.042	<u>E.Z. Gusakov</u> , A.D. Gurchenko, D.V. Kouprienko, A.B. Altukhov, L.A. Esipov, M.Y. Kantor, S.I. Lashkul, A.Yu. Stepanov	Evolution of the ETG mode turbulence frequency and wave number spectra in dynamic experiments at FT-2 tokamak
O4.043	M. Djebli	On the charge fluctuation effects in dusty plasma expansion
O4.044	<u>A.V.Ivlev</u> , V.N.Tsytoich	Stochastic heating in dusty plasmas due to charge fluctuations
O4.045	<u>V. Khudik</u> , O. Polomarov, C. Siemon, G. Shvets, A. Spitkovsky, I. D. Kaganovich	Nonlinear evolution of the Weibel instability of relativistic electron flows
O4.046	<u>S. Lisgo</u> , M. Istenic, R. Buttery, J. M. Canik, I. Katramados, M. Kovari, M. Kotschenreuther, S. M. Mahajan, M. Shannon, P. M. Valenju	Super-X Advanced Divertor Design for MAST Upgrade
O4.047	<u>H.P. Laqua</u> , S. Marsen, M. Otte, Y.Y. Podoba, J. Preinhealter, T. Stange J. Urban, D. Zhang	Electron Bernstein Wave Experiments at the WEGA Stellarator
O4.048	<u>M.-L. Mayoral</u> , J. Ongena, A.Argouarch, T.Blackman, V.Bobkov, G.Calabrò, F.Durodié, D.Frigione, R.Goulding, M.Graham, S.Huygen, P.Jacquet, E.Lerche, I.Monakhov,	ICRF heating the JET experience and prospect for ITER
O4.049	<u>A.B.Kukushkin</u> , V.S.Neverov	Magnetic Dynamo and a Trend Towards Fractality in a Random Ensemble of Magnetized Electroconductive Nanodust
O4.050	<u>M. Bacharis</u> , M. Coppins, W. Fundamenski, J. E. Allen	DTOKS Tungsten and Beryllium Dust in ITER
O4.051	<u>M. Rubel</u> , D. Ivanova, V. Philipps, M. Freisinger, J. Linke, O. Neubauer, H. Penkalla, B. Schweer, G. Sergienko, E. Wessel	Dust Particles in Fusion Devices Generation Mechanisms and Analysis
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O4.053	<u>O.S.Vaulina</u> , E.A.Lisin	Determination of pair interaction potential for particles in non-ideal dissipative systems
O4.054	Haynam	The National Ignition Facility 192 beam 3 ω Laser Performance Status
O4.055	V. N. Tsytoich	Advantages of Spherical Dust Structure Experiments According to the Results of Detailed Theory of Dust Structure Equilibrium and Stability

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O5.055	<u>H.Urano</u> , Y.Sakamoto, N.Oyama, K.Kamiya, A.Kojima, N.Hayashi, N.Aiba, Y.Kamada	Pedestal characteristics of ELMy H-mode plasmas in JT-60U
O5.056	<u>R. Dux</u> , T. Pütterich, A. Janzer	Flushing and Erosion of Tungsten during Edge Localized Modes
O5.057	J. Hobirk, F. Imbeaux, F. Crisanti, P. Buratti, <u>C. D. Challis</u> , E. Joffrin, B. Alper, Y. Andrew, P. Beaumont, M. Beurskens, A. Boboc, A. Botrugno, M. Brix, G. Ca	Improved Confinement in JET hybrid discharges
O5.058	Caillabet	A first-principle equation of state of hydrogen: the molecular solid and liquid phases and an application to isentropic compression
O5.059	Vinci	Experimental and numerical study of isentropic compression by laser irradiation
O5.060	<u>J.G. Kirk</u> , A.R. Bell, I. Arka	Prolific pair production with next generation lasers
O5.061	<u>A.M. Garofalo</u> , K.H. Burrell, G.L. Jackson, M.J. Lanctot, H. Reimerdes, W.M. Solomon	Plasma Rotation Driven by Static Nonresonant Magnetic Fields
O5.062	<u>Y.Liang</u> , H.R. Koslowski, S. Jachmich, E. Nardon, A. Alfier, T. Eich, C. Gimblett, C. Giroud, G. Maddison, P.T. Lang, M.P. Gryaznevich, D. Harting, S. Saarelma, Y. Sun, R. Wenninger, C. Wiegman	Overview of ELM control by low n magnetic perturbations on JET
O5.063	<u>S. C. Guo</u> , L. Shi, X. G. Wang, T. Bolzonella, M. Baruzzo	Cylindrical Model of RWM in RFP Plasmas and Application on RFX-mod
O5.064	St. Kolev, <u>Ts. Paunsk</u> a, A. Shivarova, Kh. Tarnev, Ts. Tsankov	Self-consistent model of an inductively driven plasma source of negative hydrogen ions
O5.065	<u>J.Kopecki</u> , D. Kiesler, M. Leins, A. Schulz, M. Walker, U. Stroth	Investigations of a novel plasma torch at 915 MHz
O5.066	<u>A.V. Ivchenko</u> , O.A. Zhuravliov, V.G. Shakhov	Comparative Studies of Cylinder 8217 s Aerodynamic Features Depending on Propagation Direction of the Non-Arching Surface Discharge in Subsonic Flow
O5.067	<u>C. Theiler</u> , I. Furno, P. Ricci, A. Fasoli, B. Labit	Study of filament motion and their active control
O5.068	<u>L. Gargat</u> é, R. A. Fonseca, J. Niemiec, R. Bingham, L. O. Silva	Magnetic field amplification and saturation mechanisms for the non-resonant Bell instability in astrophysical shocks
O5.069	M.B. Kadomtsev, <u>M.G. Levashova</u> , V.S. Lisitsa, N.N. Nagel	Quasi-Classical Theory of the Radiative–Collisional Cascade in Rydberg Atoms