

Table of Contents

Oral presentations

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
OR.001/H	F.W. Perkins	Generation of Plasma Rotation in a Tokamak by Ion-Cyclotron Absorption of Fast Alfvén Waves	1
OR.002/H	D.A. Hartmann	Recent Progress with ICRF Heating on the Stellarator W7-AS	5
OR.003/G	M. A. Pedrosa	Edge fluctuations and transport in the TJ-II stellarator	9
OR.004/G	T.T.C. Jones	Results of JET Pellet Fuelling Experiments with Outboard and Inboard Launch	13
OR.005/D	G. Serianni	Plasma characterisation of a DC closed field magnetron sputtering device	17
OR.006/D	S.I. Krasheninnikov	Molecular Effects in Plasma Recombination	21
OR.007/B	F. Salzedas	The experimental relation between the tearing mode growth rate and the perturbed magnetic field	25
OR.008/B	M. Maraschek	Stabilisation of Neoclassical Tearing Modes in ASDEX Upgrade with ECRH	29
OR.009/A	A. Fasoli	Collision-less Magnetic Reconnection in a Toroidal Magnetic Cusp	33
OR.010/A	R. Sugaya	Cross-Field Plasma Acceleration and Potential Formation in a Relativistic Magnetized Plasma	37
OR.011/F	J.P. Goedbloed	Plasma Rotation: Transition from linear to non-linear dynamics	41
OR.012/G	L. Krlin	Radial Electric Field Generation During Anomalous ExB Ion Diffusion	45
OR.013/I	S. Zoletnik	Two-dimensional measurement of electron density and its fluctuation in the edge of magnetically confined plasmas by BES technique	49
OR.014/I	H.-U. Fahrbach	Ion Temperature Determination from Atomic Fluxes above Neutral Beam Injection Energies in ASDEX Upgrade	53
OR.015/F	T. Fülöp	Nonlinear neoclassical transport in toroidal edge plasmas	57
OR.016/F	V. Parail	Predictive Modelling of ELMy H-mode JET Plasmas with 2-D Transport Code COCONUT	61
OR.017/E	G. Tóth	The $\text{divB}=0$ Constraint in Shock-Capturing Magnetohydrodynamics Codes	65

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
OR.018/E	K.G. McClements	Electron Acceleration due to High Frequency Instabilities at Supernova Remnant Shocks	69
OR.019/B	C.D. Challis	The Effect of LHCD on the Evolution of Internal Transport Barriers in JET	73
OR.020/B	S. Takeji	Improvement of Plasma Performance Toward Steady-state High-beta Tokamak Operation in JT-60U	77
OR.021/J	V.B. Tikhonov	Investigation on a New Type of MPD Thruster	81
OR.022/J	A. Girard	ECR plasmas and ECR Ion Sources	85
OR.023/A	J. Bergmans	Stability of localized structures in magnetized plasmas	89
OR.025/C	D. Batani	Recent experiments on fast electron transport in solid materials: electron inhibition and jet production	93
OR.026/B	N.A. Kirneva	H-mode investigation under ECRH on T-10. Density limit experiments under ECRH (ECCD) and gas-puffing on T-10.	97
OR.027/B	M.G. Bell	Physics Results from the National Spherical Torus Experiment	101

Poster Session 1, Monday 12th of June 2000

P1.001/A	E.Z. Gusakov	Theory of three-wave coupling in a warm magnetized plasmas.	105
P1.003/A	B.T. Kress	Incompressible pressure determinations	109
P1.004/A	L. Sorriso-Valvo	Non-gaussian probability distribution functions in two dimensional Magnetohydrodynamic turbulence	113
P1.006/A	M. Romé	Vortex Motion in a Pure Electron Plasma	117
P1.007/A	I. Kotelnikov	Thermal Equilibrium of Annular Nonneutral Plasmas	121
P1.011/A	N. Attico	Collisionless reconnection in the whistler frequency regime	125
P1.012/A	M. Brunetti	Nonlinear Landau damping in the relativistic and non-relativistic regime	129
P1.013/A	E. Lazzaro	Propagation and Damping of Long MHD Waves In a Strongly Non-uniform Plasma	133
P1.015/A	D. Grasso	Long Term Evolution of Magnetic Reconnection Processes	137
P1.016/A	R. Gaelzer	The Effective Dielectric Tensor for Plasmas with Inhomogeneities in Density and Magnetic Field	141

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P1.017/A	S. Eguilior	Runaway Source Term as an Escape Process in a Potential	145
P1.018/A	A. Mohri	Experiment on Nonneutral Electron Plasma Confinement in a Field Composed of a Magnetic Quadrupole and an Electric Octapole	149
P1.021/B	F. Crisanti	ExB Flow shearing rate evaluation in JET ITB discharges	153
P1.022/B	D. Pacella	Peculiarities of space and time evolution of iron impurity injected in the FTU tokamak plasmas	157
P1.023/B	F. Alladio	Results of Proto-Pinch Testbench for the Proto-Sphera experiment	161
P1.024/B	J.R. Martin-Solis	Runaway electron measurements in the FTU tokamak	165
P1.025/B	H. Reimerdes	Neoclassical tearing modes in TCV	169
P1.026/B	I. Furno	Influence of Electron Cyclotron Heating on Electron Density Behavior	173
P1.027/B	Y.R. Martin	Ohmic H-mode Accessibility in Shaped TCV Plasmas	177
P1.028/B	J.B. Lister	Plasma Equilibrium Response Modelling Experiments on the JT-60U and TCV Tokamaks	181
P1.029/B	F. Hofmann	Effect of ELMs on the Measurement of Vertical Plasma Position in TCV	185
P1.031/B	B. Zurro	Impurity ion rotation and temperature behaviour in the TJ-II stellarator as a function of injected power and magnetic configuration	189
P1.032/B	F.L. Tabares	Edge Transport Characterisation of Hydrogen and Helium Plasmas in TJ-II Stellarator	193
P1.034/B	J.A. Jimenez	Bootstrap Current Studies in the TJ-II Heliac	197
P1.035/B	I. García-Cortés	ELM-like Transport Events in TJ-II Stellarator	201
P1.036/B	F. Castejón	Internal Heat Transport Barriers in TJ-II	205
P1.037/B	E. Ascasíbar	Magnetic configuration dependence of the plasma energy content in TJ-II Stellarator	209
P1.038/B	C. Alejaldre	Latest Experimental Results of TJ-II Flexible Heliac	213
P1.040/B	C.D. Warrick	Controlled seeding and stabilisation of neoclassical tearing modes in COMPASS-D	217
P1.041/B	R. Martin	Operation Limits, VDEs and Halo Currents on MAST	221

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P1.042/B	H. Meyer	Investigation of the influence of edge parameters on L-H-mode transitions on COMPASS-D	225
P1.043/B	S.A. Sabbagh	Investigation of Experimental Equilibrium Domain in NSTX Ohmic Plasmas	229
P1.045/B	Zh.N. Andrushchenko	Lagrangian formulation of the transport theory for energetic ions in toroidal plasmas	233
P1.046/B	E. Joffrin	Role of MHD in the triggering and destruction of ITBs in JET	237
P1.047/B	G.L. Jackson	Impurity Seeding of JET L-mode Diverted Plasmas with $q(0) < 1$	241
P1.048/B	C. Gormezano	High Beta Plasmas with Internal Transport Barriers in JET	245
P1.049/B	N.C. Hawkes	Current profile and E_r results with MSE measurements in JET Optimised Shear Plasmas	249
P1.050/B	Y. Sarazin	Dynamics of ITB perturbation due to large ELMs in JET	253
P1.052/C	L. Jacquet	Numerical Studies of Indirect-Drive ICF Targets for Z-pinch Facility	257
P1.054/C	S.V. Lebedev	Plasma Formation and Seeding of R-T Instabilities in Wire Array Z-pinch	260
P1.055/C	J. Robiche	Cross over relativistic pitch angle scattering to magnetic pinching and X ray conversion efficiency	264
P1.059/E	E. Henry	Preliminary results on the EOS of Water in the Megabar range	268
P1.060/E	P. Platania	Inhomogeneous Comptonization of CMB by Cosmological Blastwaves	272
P1.061/E	V. Carbone	Intermittency in plasmas	276
P1.062/E	V.N. Tsytovich	Rates of thermonuclear reactions in dense plasmas	280
P1.063/E	M.J. May	Benchmarking of Atomic Physics Rates and Collisional Radiative Models for Laboratory and Astrophysical Plasmas for Ar, Fe, and Ge studied on the Tokamak FTU	284
P1.065/F	S. Voskoboinikov	Modelling of Improved Core Confinement on FT-2 Tokamak	288
P1.068/F	V.A. Yavorskij	Stochastic Transport of Fast Ions in Stellarators	292
P1.070/F	I.O. Girka	Eigen kinetic Alfvén waves localized between two Alfvén resonances	296
P1.071/F	Ya.I. Kolesnichenko	Alfvén eigenmode structure in Helias configurations	300

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P1.073/F	Ya.I. Kolesnichenko	Collisionless Loss of Transitioning Energetic Ions in Optimized Stellarators	304
P1.076/F	G. Telesca	Simulation of the RFX plasmas by the self-consistent code RITM	308
P1.077/F	F. Porcelli	Sawtooth magnetic reconnection with localised plasma heating	312
P1.078/F	L. Garzotti	Particle transport analysis of L-mode pellet fuelled plasmas in JET	316
P1.079/F	H. Sugimoto	Equilibria of Suydam Stable RFP Plasma with High Flow Shear	320
P1.080/F	P.B. Snyder	Full Spectrum Stability Analysis of the Tokamak Edge Region	324
P1.081/F	M. Bouamoud	Variational approach to excitation in p^+Be^{3+} collisions at intermediate and high impact velocities	328
P1.082/F	H. Jhang	Magnetics Control of Korea Superconducting Tokamak Advanced Research (KSTAR) Plasmas	332
P1.083/F	J.Y. Kim	Simulation Study of KSTAR Target Operating Modes using ASTRA	336
P1.084/F	A.N. Simakov	Plasma Equilibrium with Anisotropic Pressure in the Magnetic Field of a Point Dipole and its Stability	340
P1.087/F	P.J. Catto	Electron Cyclotron Current Drive with a Symmetric Spectrum in a Tokamak	344
P1.088/G	A. Kainz	ITER-like Fusion Devices Plasma Behavior Simulation: Enhancement utilizing Adaptive Mesh Application	348
P1.090/G	D. Tskhakaya	Simulation of Particle Acceleration in Front of a Lower-Hybrid Grill	352
P1.091/G	M. Shoucri	Study of the problem of the formation of a steep plasma gradient in front of a plate at a plasma-wall transition	356
P1.092/G	E. Pohn	The application of an invariant method for the solution of the Vlasov equation at a plasma edge	360
P1.093/G	K.-S. Chung	Self-consistent measurement of shear viscosity and flow velocity by using conventional Mach probes in tokamak edge plasmas	364
P1.094/G	H. Würz	Dust production in ITER-FEAT off normal events and target screening by dust particles	368
P1.096/G	A. Runov	Study of Heat Conductivity in DED of TEXTOR-94 Using Multiple Coordinate System Approach	372

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P1.098/G	D. Mossessian	H-mode pedestal studies in Alcator C-Mod	376
P1.099/H	E.Z. Gusakov	Modeling of EB Wave Launch in Spherical Tokamak GLOBUS-M	380
P1.102/H	S.x. Liu	Ion Heating Effects of LHCD on HT-7 Superconducting Tokamak	384
P1.103/H	S. Pécoul	ICANT code: a tool to compute the characteristics of ICRH realistic antennae and their near fields	388
P1.104/H	T. Seki	ICRF Heating Experiment on the Large Helical Device	392
P1.105/H	Y. Takeiri	High-Density Long-Pulse Discharges Sustained by Neutral Beam Injection in Large Helical Device	396
P1.106/H	H. Idei	Polarized Radiative Transfer of Electron Cyclotron Wave in LHD	400
P1.107/H	T. Ozaki	Preliminary Results of the Neutral Particle Measurements in Large Helical Device	404
P1.108/H	K.L. Wong	Excitation of Internal Kink Instability During Off-Axis Electron Cyclotron Heating in the DIII-D Tokamak	408
P1.109/I	A.V. Khudoleev	Charge-Exchange Diagnostics of Knock-on Deuterium-Tritium Ion Distribution Function in Fusion Plasma	412
P1.111/I	A.D. Gurchenko	Correlation Upper Hybrid Resonance Scattering Diagnostics of Small Scale Turbulence in FT-1 Tokamak	416
P1.112/I	M.Yu. Kantor	A Possibility of Plasma Current Density Measurements Using Suprathermal Electron Bremsstrahlung Emission	420
P1.113/I	M.Yu. Kantor	Test of a Periodic Multipass-Intracavity Laser System for the Textor Multiposition Thomson Scattering Diagnostics	424
P1.114/I	E.Z. Gusakov	Two dimensional theory of correlation reflectometry scattering diagnostics	428
P1.115/I	V.V. Bulanin	Use of reflectometry diagnostics with tilted antenna beam for comparative studies of H-modes in TUMAN-3M tokamak	432
P1.116/I	H.P. Callaghan	Pressure profile recovery on the W7-AS stellarator with external magnetic information using function parameterization	436
P1.117/I	P.J. Mc Carthy	Current Profile Identification on ASDEX Upgrade from Motional Stark Effect and the CLISTE Interpretive Equilibrium Code	440

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P1.118/I	A. Murari	First FIR multichord Faraday rotation measurements in RFX	444
P1.119/I	J.S. Mao	Multipoint Nd Laser Thomson Scattering Diagnostic for HT-7 Superconducting Tokamak	448
P1.120/I	S.Y. Zhang	Innovative fast-scanning heterodyne receiver for Electron Cyclotron Emission measurements on HT-7 superconducting tokamak	452
P1.121/I	M. Sasao	Development of Diagnostic Helium Beam for High Energy Particle Measurement in Magnetically Confined Plasma	456
P1.122/I	Y. J. Zheng	Analysis of Pellet Ablation and Penetration in HL-1M Tokamak	460
P1.124/J	G.I. Dimov	Simulation of a Supersonic Plasma Jet with Recombination in a Magnetic Nozzle	464
P1.125/J	E.P. Kruglyakov	Moderate Flux Version of 14 MeV Neutron Source Based on Gas Dynamic Plasma Confinement	468
P1.126/J	S. Pekárek	Two Hollow Needles-to-Plate Electrical Discharge at Atmospheric Pressure	472
P1.127/J	H. Kiyama	A Low Energy Ion Beam Plasma Source With Low Electron Temperature	476
P1.128/J	A. Serban	Time-resolved Electron Beam and X-ray Emission from a Neon Plasma Focus	480
P1.129/J	R.S. Rawat	Deposition of TiC Thin Films Using Dense Plasma Focus Device	484

Poster Session 2, Tuesday 13th of June 2000

P2.001/A	W. Entler	3D Finite Larmor Radius Guiding Center Model of a Plasma Edge	488
P2.002/A	M.S. Benilov	Improving the Child-Langmuir sheath model	492
P2.003/A	C.F. Figarella	Feedback control of drift waves turbulence and chaos	496
P2.008/A	A.I. Pyatak	Fast magnetosonic wave transmission through cyclotron resonance layer under propagation across nonuniform magnetic field	500
P2.010/A	S. Klose	Ion-Drift-Waves in the PSI-2	504
P2.012/B	S.I. Lashkul	Transport Barrier Dynamics with Lower Hybrid Heating in the FT-2 Tokamak Experiments	508
P2.013/B	N. Sakharov	First Plasma Experiments on Spherical Tokamak Globus-M	512

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P2.014/B	L.A. Esipov	Acceleration of electrons during the second fast vortex electric field ramp up in the FT-2 tokamak plasma	516
P2.015/B	L.G. Askinazi	The H-mode transition mechanism studies using different edge plasma perturbations on the TUMAN-3M tokamak	520
P2.016/B	S.V. Lebedev	Confinement bifurcation by magnetic compression on TUMAN-3	524
P2.017/B	Y. Maejima	Single Helicity Steady State of Reversed Field Pinch Plasma	528
P2.018/B	Y. Yagi	Characteristics of Global Confinement Properties in TPE-RX Reversed Field Pinch	532
P2.019/B	H. Koguchi	Cause of mode-locking phenomena in TPE-RX	536
P2.020/B	K. Yatsu	High Density Operation of Potential Confinement in the GAMMA 10 Tandem Mirror	540
P2.022/B	C.M. Greenfield	Improvement of Core Barriers with ECH and Counter-NBI in DIII-D	544
P2.023/B	J.R. Ferron	H-Mode Edge-Driven Instabilities as Low-n Kink/Ballooning Modes	548
P2.024/B	P. Gohil	Studies of H-Mode Plasmas Produced Directly by Pellet Injection in the DIII-D Tokamak	552
P2.025/B	J.C. Rost	Comparison of Edge Fluctuation Measurements from PCI, BES, Langmuir Probes and Reflectometry on DIII-D	556
P2.026/B	M. Murakami	The Physics of Confinement Improvement With Impurity Seeding in DIII-D	560
P2.027/B	T.L. Rhodes	Turbulent Radial Correlation Lengths in the DIII-D Tokamak	564
P2.028/B	A.B. Kukushkin	Wild Cables In Tokamak Plasmas (Theoretical View)	568
P2.029/B	A.B. Kukushkin	Wild Cables In Tokamak Plasmas (Experiment)	572
P2.031/B	N.A. Kirneva	Investigations of plasma behavior in vicinity of $q_{min}=1$	576
P2.036/B	L.G. Eliseev	Behavior of the plasma electric potential during the internal and external transport barriers formation	580
P2.037/B	D.A. Kislov	Soft Beta Limits in T-10 Tokamak.	584
P2.038/B	P.V. Savrukhin	Small-scale modes in T-10 tokamak	588
P2.039/B	V.V. Alikeev	Investigation of the electron internal barrier formation mechanism in T-10 tokamak	592

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P2.040/B	A.M. Belov	Observation of fast penetration of impurities into the plasma core during the disruptions at T-11M tokamak	596
P2.041/B	T. Mizuuchi	The Initial Experiment in Heliotron J	600
P2.042/B	G. Kocsis	The effect of pellet size on the pellet cloud distribution and radiation	604
P2.043/B	A.H. Kritz	Multi-Mode Model Transport Simulations of Internal Transport Barriers in JET and DIII-D	608
P2.044/B	W.R. Hess	Measurement of Impurity Profile Modifications with a modulated Diagnostic Beam	612
P2.045/B	G. Martin	Fast electron dynamics in the tore-supra plasma edge	616
P2.046/B	G.T. Hoang	Test of Electron Heat Diffusivity Against The Electron Temperature Gradient Turbulence Model and Investigation of Critical Temperature Gradient on Tore Supra	620
P2.047/B	X. Litaudon	q-profile evolution and improved core electron confinement in the full current drive operation on Tore Supra	624
P2.048/B	X.L. Zou	First ECRH Experiments in Tore Supra	628
P2.049/B	P. Devynck	The Hurst exponent and long-time correlation	632
P2.050/B	R. Raman	Coaxial Helicity Injection for the generation of non-inductive current in NSTX	636
P2.051/C	A.B. Kukushkin	Wild Cables In a Z-pinch and Plasma Focus	640
P2.057/E	M. S. Janaki	Field-Reversed Configuration (FRC) as a Minimum- Dissipative Relaxed State	644
P2.060/E	O.K. Cheremnykh	Filtration Properties of the Ionosphere and Magnetosphere for ULF EM Radiation Penetrating from Lithosphere	648
P2.062/E	N.I. Grishanov	Dispersion equation of the cyclotron waves in a two-dimensional magnetospheric plasma with anisotropic particle energy	652
P2.063/E	G.N. Throumoulopoulos	Magnetic Dipole Equilibrium of a Gravitating Plasma with Incompressible Flows	656
P2.064/F	G. Kamelander	Helium Recycling Studies for Iter Plasmas with Internal Transport Barrier	660
P2.065/F	H. Bürbaumer	Grid Refinement for the B2 plasma edge simulation code	664
P2.066/F	S.V. Kasilov	Evaluation of the parallel current density in a stellarator using the integration technique along the magnetic field line	668

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P2.067/F	V.V. Nemov	The plateau regime of neoclassical transport in stellarators	672
P2.068/F	V.V. Nemov	The $1/\nu$ transport regime for neoclassically optimized stellarator systems	676
P2.069/F	V.Ya. Goloborod'ko	Results of 3D Fokker-Planck modelling of alpha particle loss in JET	680
P2.070/F	V.A. Yavorskij	Analytical Models of Axisymmetric Toroidal Magnetic Fields with Noncircular Flux Surfaces	684
P2.071/F	H. Weisen	Evidence for the role of magnetic entropy in stationary Ohmic tokamak discharges	688
P2.072/F	A. Fukuyama	Analysis of Ion Cyclotron Waves and Alfvén Eigenmode in a Toroidal Helical Plasma	692
P2.073/F	I. Voitsekhovitch	Non-inductive tokamak: advanced scenario with radio frequency heating and current drive	696
P2.074/F	P. Beyer	Evolution of turbulent transport during the formation of internal transport barrier in tokamak	700
P2.075/F	R. Tabet	contribution to study of the non-Gaussian dynamics of stochastic magnetic field lines in a toroidal geometry	704
P2.076/F	J.J. Martinell	Poloidal Plasma Rotation by the Ponderomotive Force of Intense Electron Cyclotron Waves	708
P2.077/F	D.Kh. Morozov	Reduced descriptions of light impurities in hydrogen coronal plasmas and their validities	712
P2.078/F	G. Veres	The Effect of Charge-Exchange on the Total Radiative Power Emitted by Light Impurity Elements in Hot Plasmas	716
P2.081/F	T. Hayashi	Island Formation and Nonlinear Stability for Helical Plasmas Using the HINT code	720
P2.082/F	S.-I. Itoh	Statistical Theory of Subcritically-Excited Strong Turbulence in Inhomogeneous Plasmas	724
P2.084/F	C.G. Liu	Neoclassical poloidal plasma rotation in the presence of RF waves in tokamaks	728
P2.085/F	A.S. Ware	Cross Phase Evolution in Electrostatic Turbulence	732
P2.086/G	M. Rubel	Dust Particles: Morphology and Observations in the Plasma	736
P2.088/G	S.V. Shatalin	Measurements of the FT-2 tokamak edge plasma fluctuations in improved confinement regimes	740
P2.089/G	A. Tonegawa	Magnetic presheath structure in the sheet plasma with radial electric field	744
P2.090/G	A. Tonegawa	Influence of the negative ion on detached plasma in the sheet plasma	748

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P2.092/G	A.W. Leonard	High Density H-Mode Discharges with Gas Fueling and Good Confinement on DIII-D	752
P2.093/G	T.N. Carlstrom	Edge E_r Structure and the ∇B Drift Effect on L-H Transition	756
P2.094/G	R.J. Colchin	Measurement of Neutral Densities at the Outer Midplane in DIII-D	760
P2.095/G	J.A. Boedo	Parallel and $E \times B$ Flows in Detached Divertor Plasmas in DIII-D	764
P2.096/G	H.A. Claassen	Calculation of Radial Electric Field and Poloidal Rotation in Tokamak Edge Plasmas under Consideration of Anomalous Transport	768
P2.097/G	S.S. Abdullaev	Variation of the ergodic and laminar zones of the Dynamic Ergodic Divertor on TEXTOR-94	772
P2.098/G	G. Mank	Tritium Deposition at TEXTOR-94	776
P2.100/G	T. Morisaki	Relationship between Edge Magnetic Field Structure and Density/Temperature Profiles in LHD heliotron	780
P2.101/H	V. Basiuk	Ripple loss studies during ICRF Heating on Tore Supra	784
P2.102/H	F. Imbeaux	1D simulations of current profile control in purely non-inductive discharges for the Tore Supra CIEL project	788
P2.104/H	L. Colas	Heat Load Patterns on Tore Supra ICRH Antennas	792
P2.105/H	F. Nguyen	Ergodic Divertor experiments in Tore Supra above the Greenwald density limit with ICRF power at low magnetic field	796
P2.106/H	A. Ekedahl	First Results of Coupling and Edge Plasma Interaction Experiments with the New Advanced LHCD Launcher in Tore Supra	800
P2.107/H	S.S. Pavlov	On the problem of the accuracy of Fast Wave absorption estimate at the fundamental ICR harmonic	804
P2.108/H	D.W. Swain	Results of High-Harmonic Fast Wave Experiments on NSTX	808
P2.109/H	A.V. Sushkov	Determination of the heat flux structure after switch-off (-on) ECRH in T-10	812
P2.110/I	M.E. Manso	Routine Density Profiles with High Spatial and Temporal Resolutions from the FM-Broadband Reflectometry System in ASDEX Upgrade	816
P2.111/I	M.N.A. Beurskens	Edge electron temperature and density measurements for ITER shape studies using the JET edge LIDAR system	820

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P2.112/I	L.A. Shmaenok	Pilot Results on Spectrally Selective Ultra Soft X-Ray Tomography on TEXTOR	824
P2.113/I	C. Avram	Plasma potential measurements in the edge plasma region of a small tokamak by means of electron emissive probes	828
P2.117/I	S. Jachmich	Influence of plasma flow on the floating potential and an ensuing novel technique for measuring parallel flows	832
P2.118/I	S. Zweben	Visible Imaging of Edge Turbulence in NSTX	836
P2.119/I	M. Bitter	A new Method for Absolute Measurements of the Toroidal Plasma Rotation Velocity a TEXTOR-94	840
P2.120/I	M. Sadowski	NEW DIAGNOSTIC EQUIPMENT FOR TIME-RESOLVED STUDIES OF IONS FROM STELLARATOR- AND TOKAMAK-MACHINES	844
P2.121/I	J. Baranowski	Diagnostics of Pulsed Plasma-Ion Streams Emitted from RPI-type Devices	848
P2.122/J	M. Shoucri	The application of an Eulerian Vlasov code for the study of kinetic effects in an inductively coupled discharge	852
P2.123/J	N.A. Azarenkov	Axial Structure of Gas Discharge Sustained by the Quadrupolar Wave in Three Component Magnetized Waveguide Structure	856
P2.124/J	V.P. Olefir	Influence of Radial Electron Density Profile on the Axial Structure of Gas Discharges Sustained by Potential Surface Waves	860
P2.126/J	V. Girka	Surface Flute Modes Propagating in Plasma Filled Cylindrical Metal Waveguides with Non-circular Cross-Section	864

Poster Session 3, Wednesday 14th of June 2000

P3.001/A	B. Weyssow	Chaotic adiabatic dynamics in a 2D electrostatic field	868
P3.002/A	I. Kourakis	Kinetic theory and diffusion coefficients for plasma in a uniform magnetic field	872
P3.003/A	S. Louies	Current Drive via Autoresonance and Intermittent Trapping Mechanism - A Numerical Study	876
P3.004/A	T. Nagasawa	Oscillatory Phenomena in the Space Potential Hole made by the Pinpoint Plasma	880
P3.005/A	T. Honzawa	Emission of High Frequency Oscillations and its External Control by Low Frequency Fields	884

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P3.006/A	T. Honzawa	Nonlinear behavior ...	888
P3.007/A	A.J.C. Beliën	Axisymmetric Plasma Equilibria with Flow: A New Solver	892
P3.008/A	R.Keppens	The evolution of the compressible magnetized wake	896
P3.009/A	B.N. Kuvshinov	Spherical electron vortices	900
P3.010/A	G. Valori	Temperature gradients in magnetic reconnection	904
P3.016/B	S.Yu.Taskaev	Obtaining of Hot Plasma in a Mirror by an Arc Source	908
P3.017/B	A.A. Lizunov	Study of the MHD-stability of the multicomponent plasma with the finite beta confined in the Gas-Dynamic Trap	912
P3.018/B	A.V. Anikeev	Study of the distribution of DD reaction intensity in the GDT experiments	916
P3.019/B	A.N.Karpushov	Integrated Transport Code System for Multicomponent High-Beta Plasmas in the Gas-Dynamic Trap	920
P3.020/B	A.V.Anikeev	Study of the axial distribution of DD reaction intensity in the GDT experiments	924
P3.021/B	A.V. Arzhannikov	First experiments with multimirror confinement at the GOL-3-II facility	928
P3.022/B	A.V. Arzhannikov	Pellet Injection in Beam-Heated Plasma on the GOL-3-II Facility	932
P3.023/B	P. Mantica	Heat Transport Barriers in RTP: Diffusive or Convective?	936
P3.024/B	N.P. Basse	Density Fluctuations During Confinement Changes in the Wendelstein 7-AS Stellarator	940
P3.025/B	G.M.D. Hogewij	Dependence of Electron Thermal Transport on ν_e^*	944
P3.027/B	V.S. Udintsev	Large $m/n = 2/1$ modes observation in TEXTOR-94 plasmas.	948
P3.028/B	V.S. Udintsev	Non-thermal electrons in TEXTOR-94 tokamak plasmas.	952
P3.029/B	H. Urano	Density Dependence of Thermal Energy Confinement Properties of ELMy H-mode in JT-60U	956
P3.030/B	S. Günter	MHD phenomena in advanced scenarios on ASDEX Upgrade	960
P3.031/B	P. Barabaschi	A Dimensional Extrapolation Technique based on a System Code applied to the ITER H-mode Energy Confinement Database	964

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P3.032/B	J. P. Meskat	Analysis of the Dynamics of Tearing Modes in ASDEX Upgrade	968
P3.033/B	R. Dux	First Measurements of Impurity Transport in the Edge of H-Mode Plasmas at ASDEX Upgrade	972
P3.034/B	J. Stober	Type-II ELMs and density peaking during high density H-modes on ASDEX Upgrade	976
P3.035/B	H. Meister	Effect of the radial electric field on transport at ASDEX Upgrade	980
P3.036/B	J. Hobirk	First Measurements of the Radial Electric Field with the Motional Stark Effect Diagnostic in ASDEX Upgrade	984
P3.038/B	A. Werner	Fast Ion Losses in the W7-AS Stellarator	988
P3.039/B	A. Kendl	Turbulent transport minimization in stellarator optimization	992
P3.040/B	H. Wobig	Drift waves and test particle transport in a stellarator	996
P3.041/B	R. Burhenn	On the Dependence of Impurity Transport on Density and Toroidal Magnetic Field in the Stellarator Wendelstein 7-AS	1000
P3.042/B	G.D. Conway	Turbulence suppression and transport barrier formation in JET and ASDEX Upgrade	1004
P3.043/B	D. Bolshukhin	Central transport investigations of medium to high Z impurities in ASDEX Upgrade ITB discharges	1008
P3.044/B	J. Kisslinger	Reduced Aspect Ratio HELIAS Configurations	1012
P3.045/B	P.T. Lang	Operational boundaries of pellet fueled ELMy H-modes in ASDEX Upgrade and JET	1016
P3.046/B	G.V. Pereverzev	Transport Modelling of ASDEX Upgrade Plasmas with Internal Transport Barrier	1020
P3.047/B	M. Maraschek	Scaling of the onset of neoclassical tearing modes in various scenarios in ASDEX Upgrade and ASDEX	1024
P3.048/B	F. Žáček	Radial variations of the floating potential in front of the lower hybrid grill of the CASTOR tokamak	1028
P3.049/B	J. Stöckel	Plasma polarization of the separatrix on the CASTOR tokamak	1032
P3.050/B	C. Honoré	Edge Plasma Turbulence Analysis For High Plasma Density	1036
P3.051/B	S.P. Hirshman	Transport and Stability of Compact Drift Optimized Stellarators	1040

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P3.052/B	S.C. Prager	Local Measurements of Nonlinear Phenomena in the MST Reversed Field Pinch: Reconnection, Torques, and Dynamo	1044
P3.053/B	D. Craig	Transport Reduction in the MST Reversed Field Pinch via Plasma Edge Control	1048
P3.054/D	E. Martines	Electrostatic turbulence characterisation in a DC magnetron plasma	1052
P3.058/D	C. Borcia	Physical basis of anomalous transport observed in plasma devices	1056
P3.059/D	N. Krause	Low-Temperature Plasma Turbulence in the Toratron TJ-K	1060
P3.061/D	M. Cercek	Electrode floating potential in a plasma with additional energetic electrons: theory, simulation and experiment	1064
P3.062/F	W. Zwingmann	Equilibrium Reconstruction of Tokamak Discharges with Anisotropic Pressure	1068
P3.063/F	G.T.A. Huysmans	Modelling of Ion-Diamagnetic Effects on Ideal MHD Modes in Tokamaks	1072
P3.064/F	F. Albajar	Effect of Toroidicity and Temperature Profiles on Synchrotron Losses in a Tokamak Plasma	1076
P3.065/F	L.-G. Eriksson	Monte Carlo Solution of the Orbit Averaged Fokker-Planck Equation Including Ripple Losses	1080
P3.066/F	V. Fuchs	On sustaining low or reversed magnetic shear equilibria with non-inductive current drive on JET	1084
P3.067/F	V. Bergeaud	Interaction of Ion Cyclotron Range of Frequencies Wave with Energetic Particles	1088
P3.068/F	C. Bourdelle	Stability Analysis of Internal Transport Barrier on Tore Supra	1092
P3.069/F	R. Coelho	Unlocking static coupled magnetic islands in the presence of resistive wall effects and external resonant magnetic fields	1096
P3.070/F	M.F.F. Nave	Effect of mode coupling on the triggering and control of neo-classical tearing modes	1100
P3.071/F	C. Wahlberg	Isothermal internal kink instability in a toroidally rotating tokamak plasma	1104
P3.072/F	A. Bondeson	Active Feedback Stabilization of Nonaxisymmetric Modes in Tokamaks	1108
P3.073/F	H.E. S��therblom	Effects of Induced Toroidal Plasma Rotation on Plasma Wall Locking in the Reversed Field Pinch	1112
P3.074/F	H. Persson	Kinetic description of a rotating tokamak plasma in a steady state of Turbulent EquiPartition.	1116

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P3.075/F	S.B. Korsholm	Reynolds stress and shear flow generation	1120
P3.076/F	B. van der Holst	New Alfvén continuum gaps and global waves induced by toroidal flow	1124
P3.077/F	H.J. de Blank	The role of current layers in magnetic field stochastization	1128
P3.078/F	A.M.R. Schilham	Reproducing JET electron ITBs with the RTP q-comb model	1132
P3.079/F	L. Giannone	Modelling of the density limit in W7-AS	1136
P3.080/F	A. Bergmann	Monte Carlo delta-f simulation of wide-orbit neo-classical transport	1140
P3.081/F	S. Puri	Anomalous Particle Convection in Tokamaks	1144
P3.082/F	G. Tardini	Comparison of theory based transport models with ASDEX Upgrade data	1148
P3.083/F	H.P. Zehrfeld	Dissipative Magnetohydrodynamic Equilibria with Compressible Fluid Flow	1152
P3.084/F	Yu. Igitchkanov	The L-H Transition in Low Density Regimes	1156
P3.086/F	E. Strumberger	Damping of double tearing modes by differential plasma rotation	1160
P3.088/F	J. Fontanet	Power balance and transport studies using PRETOR code in TJ-II shots	1164
P3.093/G	R. Pugno	Volume recombination and detachment during H-mode discharges in ASDEX Upgrade and JET	1168
P3.094/G	D. Hildebrandt	Comparison of Erosion and Deposition Behaviour of Tungsten and Carbon in the Boundary Plasma of TEXTOR-94	1172
P3.095/G	R. Neu	Laser Ablation at the Inboard Side of ASDEX Upgrade	1176
P3.096/G	A. Herrmann	Edge behaviour and divertor load in ASDEX Upgrade discharges with H-mode edge and improved core confinement	1180
P3.097/G	V. Rohde	Operation of ASDEX Upgrade with Tungsten Tiles at the Central Column	1184
P3.098/G	Y. Feng	Formulation of a Monte Carlo model for edge plasma transport	1188
P3.099/G	U. Wenzel	Recombining plasmas in the ASDEX Upgrade divertor and the divertor simulator NAGDIS-II	1192
P3.101/H	K.M. Rantamäki	Particle-in-Cell Simulations of Wave Propagation in front of a Lower Hybrid Grill	1196

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P3.102/H	T.M. Abdalla	Structure Formation by Strong, Localized Plasma Heating	1200
P3.103/H	J. Preinhaelter	Excitation of Electron Bernstein Waves in MAST	1204
P3.104/H	R. Panek	The Role of Nonlinear Effects in LH Wave - Plasma Interaction	1208
P3.105/H	S.J. Wukitch	Initial Results from an Upgraded ICRF System on Alcator C-Mod	1212
P3.106/H	A. K. Ram	COUPLING TO AND EMISSION OF ELECTRON BERNSTEIN WAVES IN NSTX HIGH-BETA PLASMAS	1216
P3.109/H	X.T. Ding	Off-Axis ECRH Experiments on HL-1M Tokamak	1220
P3.111/I	F. Clairet	X mode heterodyne reflectometry on Tore Supra	1224
P3.112/I	G.Bertschinger	Analysis of ArXVII spectra during sawtooth crashes in TEXTOR-94 discharges with a high-resolution x-ray polarimeter	1228
P3.113/I	A.Kreter	Investigation of ion transport in ohmic discharges by charge-exchange recombination spectroscopy with a diagnostic hydrogen beam in TEXTOR-94	1232
P3.114/I	H. Okada	Development of Data Acquisition System for Heliotron J	1236
P3.115/I	V.V. Pickalov	Three-dimensional emission tomography of tokamak plasmas with a single tangentially viewing camera	1240
P3.116/I	K.J. McCarthy	Impurity behaviour studies in the TJ-II Stellarator	1244
P3.117/I	A. Baciero	The search for topological structures in TJ-II radiation profiles using an automated pattern recognition procedure	1248
P3.118/I	P. Acedo	OPERATION OF A CO ₂ -HENE LASER HETERODYNE INTERFEROMETER IN THE TJ-II STELLARATOR	1252
P3.119/I	A.V. Khramenkov	PITCH-ANGLE RESOLVED MEASUREMENT OF DD FUSION PROTONS ON THE T-10 TOKAMAK	1256
P3.120/I	V. Shevchenko	ECE measurements via B-X-O mode conversion - a proposal to diagnose the q profile in spherical tokamaks	1260
P3.121/I	A.G. Meigs	Density and temperature measurements in detached recombining JET divertors	1264
P3.122/J	L. Sansonnens	RF plasma deposition uniformity on square-meter substrates	1268

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P3.124/J	A.N. Bandura	Structure and tribology characteristics of modified surface layers of steel samples processed by pulsed plasma streams	1272

Poster Session 4, Thursday 15th of June 2000

P4.002/A	V.S. Burmasov	Investigation of Long-Wavelength Ion-Acoustic Waves in Plasma with Strong Langmuir Turbulence	1276
P4.003/A	K. Wiklund	Non-linear wave interaction in a Hamiltonian family of Hasegawa-Mima related equation	1280
P4.004/A	E. Asp	Ship-Wave Eigenmodes of Drift Type in Rotating Tokamak Plasmas	1284
P4.005/A	I. Sandberg	Drift Wave Eigenmodes in Toroidally Rotating Tokamak Plasma	1288
P4.006/A	C. Agheorghiesei	Experimental results and numerical simulation on the ion space charge formation	1292
P4.007/A	V. Pohoata	Anodic double layer oscillations as a source for ion-acoustic waves	1296
P4.008/A	D. Dorozhkina	Ambipolar Effects in ECR Heating of a Plasma Column	1300
P4.011/A	F. Huot	STUDY OF PROPAGATION OF ULTRA-INTENSE ELECTROMAGNETIC WAVE THROUGH PLASMA USING SEMI-LAGRANGIAN VLASOV CODES	1304
P4.012/A	G. Dépret	SEMI-LAGRANGIAN VLASOV SIMULATIONS OF TRAPPED ION TURBULENCE	1308
P4.013/A	L.B. Ran	Characteristics of Improved Confinement Plasma in HL-1M	1312
P4.014/B	K.Y.Watanabe	Study of Toroidal Currents and MHD Equilibrium in LHD Experiment	1316
P4.015/B	H.Yamada	Characteristics of Pellet Penetration and Related Performance Improvement in LHD	1320
P4.016/B	K. Yamazaki	Dimensionless Transport Analysis on Plasma Radial Profiles in LHD	1324
P4.017/B	K.Toi	MHD Stability of Plasmas with Edge Pressure Pedestal in the Large Helical Device	1328
P4.018/B	S. Okamura	Design of a New Compact Helical System CHS-qa with a Quasi-Axisymmetry	1332
P4.019/B	T.Shimozuma	Performance of Electron Cyclotron Harmonic Heated Plasmas in Large Helical Device	1336
P4.020/B	Yu.K. Kuznetsov	Positive voltage spikes in runaway tokamak discharges	1340

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P4.021/B	S. Woodruff	The sustainment of a spheromak by DC helicity injection	1344
P4.022/B	S. Sinman	Experiments on a Spherical Tokamak Employing an Energetic Pulse Forming Line	1348
P4.024/B	M.S. Janaki	Field -Reversed Configuration (FRC) as a Minimum Dissipative Relaxed State	1352
P4.025/B	T. Bolzonella	Behaviour of MHD modes spectrum in the RFX Reversed Field Pinch	1356
P4.026/B	P. Innocente	Magnetic relaxation and discrete dynamo action in RFX	1360
P4.027/B	R. Lorenzini	Particle and energy transport analysis by means of pellet injection in the RFX reversed field pinch	1364
P4.028/B	L. Tramontin	Particle and momentum balance during edge biasing in RFX	1368
P4.029/B	P. Franz	Thermal Characterisation of Self-Organised Helical States in RFX	1372
P4.030/B	R. Bilato	Time Series Statistical Analysis for Electron Temperature Fluctuations Measurements in Plasmas	1376
P4.031/B	R. Bartiromo	Analysis of the high density limits in the RFX high current regimes	1380
P4.032/B	M. Aizawa	Neoclassical Transport in Helical Magnetic Axis System Controlled by Effective Toroidal Curvature	1384
P4.033/B	Y. Nagamine	Bootstrap Current in Low Aspect Ratio Reversed Field Pinch	1388
P4.034/B	T. Namba	Plasma Confinement and Relaxation on ATRAS-RFP Experiment	1392
P4.035/B	V.V. Plyusnin	A STUDY OF RUNAWAY GENERATION IN THE ISTTOK TOKAMAK.	1396
P4.036/B	S. Shiraiwa	Observation of internal reconnection events on TST-2	1400
P4.037/B	M. Kobayashi	Penetration Process of the Externally Applied Rotating Helical Field into the Tokamak Plasma	1404
P4.038/B	B. Unterberg	Radiative Mantle Experiments in JET Limiter Plasmas and Comparison to the RI-Mode at TEXTOR-94	1408
P4.039/B	A. Nicolai	On the Accessibility of High β - States and Long Pulse Durations in Tight Aspect Ratio Plasmas	1412
P4.040/B	X.Gao	Improved confinement mode in the HT-7 superconducting tokamak	1416

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P4.041/B	D. Kalupin	Evolution of electron density, temperature and pressure profiles in the RI-mode of TEXTOR-94.	1417
P4.042/B	T. S. Pedersen	Radial and Poloidal Impurity Transport in the H-mode Edge Pedestal of Alcator C-Mod	1421
P4.043/B	I.H. Hutchinson	Tokamak Plasma Rotation without Momentum Input	1425
P4.044/B	D. Testa	Real-Time Measurements of Damping Rates and Instability Limits for MHD Modes on the JET Tokamak	1429
P4.045/B	D. Gates	Initial operation of NSTX with plasma control	1433
P4.046/B	S.M. Kaye	Operational Limits in the National Spherical Torus Experiment	1437
P4.047/B	J. Menard	Flux Consumption Optimization and the Achievement of 1MA Discharges on NSTX	1441
P4.048/B	M.H. Redi	Stability and Transport in Compact Quasi-axially Symmetric Stellarators	1445
P4.049/B	D.M. Meade	Physics Basis for the Fusion Ignition Research Experiment (FIRE)	1449
P4.050/B	E.D. Fredrickson	Closed Loop Feedback of MHD Instabilities on DIII-D	1453
P4.051/B	R.B. White	Rotation and Particle Loss in Tore Supra	1457
P4.052/B	F.G. Meijer	Change in rotational velocity shear caused by the effect of ECH on transport barriers	1461
P4.054/D	Yong-Sup Choi	Characterization of a Large Area ICP Using a Long Range Fast Scanning Probe	1465
P4.056/D	N. Azarenkov	Comparative Analysis of a Low Pressure Microwave Gas Discharges Sustained by Cyclotron Surface Waves	1469
P4.057/D	K.P. Shamrai	Bulk, Peripheral and Near Antenna rf Power Absorption in Highly Collisional Helicon Plasma	1473
P4.059/D	M. Krämer	Temporal evolution of an m=+1 helicon discharge	1477
P4.060/D	M. Krämer	Study of the asymmetry of helicon discharges with m=1 and m=2 helical antenna coupling	1481
P4.061/D	B. Újvári	Antiproton cooling and extraction from an electron-antiproton trap	1485
P4.062/F	D.J. Kelliher	Consistency of Current Profile Recovery on JET using TRANSP and EFIT codes	1489
P4.063/F	T.J.J. Tala	ITB Formation in Terms of ω_{ExB} Flow Shear and Magnetic Shear s on JET	1493

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P4.064/F	J.A. Heikkinen	Numerical Simulation of Particle Flux in a Poloidally Rotating Tokamak Plasma	1497
P4.065/F	S. Saarelma	The Limits of β Imposed by MHD Modes near the Plasma Edge in ASDEX Upgrade	1501
P4.066/F	M. Taguchi	Analytic Expression for Neoclassical Transport Coefficients Including Finite Banana-Width Effect near the Magnetic Axis	1505
P4.067/F	K.G. McClements	Alfven eigenmodes in a beam-assisted ohmic START discharge	1509
P4.068/F	C.G. Gimblett	A Rotating Shell and Stabilisation of the Tokamak Resistive Wall Mode	1513
P4.069/F	K.G. McClements	Interpretation of Minority Ion Cyclotron Emission during ICRF Heating in JET	1517
P4.070/F	P. Helander	Suppression of runaway electron avalanches by radial diffusion	1521
P4.072/F	A. Ödöblom	Nonlinear MHD Effects in Fishbones	1525
P4.073/F	R. Storer	Three Dimensional Resistive Magnetohydrodynamic Stability	1529
P4.074/F	U. Daybelge	Stability of Revisited Neoclassical Rotation in Tokamaks	1533
P4.075/F	T. Iwasaki	Fast Responses of Core Plasma to Dithering ELMs	1537
P4.076/F	S.Yu. Medvedev	Free boundary high-beta equilibria with high bootstrap current fraction in Spherical Tokamaks	1541
P4.077/F	T.A. Casper	Non-Inductive Current Drive Modeling Extending Advanced Tokamak Operation to Steady State	1545
P4.078/F	S.C. Jardin	Tokamak Simulation Code Modeling of NSTX	1549
P4.079/F	N.N. Gorelenkov	Effect of Plasma Rotation on Sawtooth Stabilization by Beam Ions	1553
P4.080/F	L. Chen	Zonal Flow Excitation by Drift Waves in Toroidal Plasmas	1557
P4.081/F	T.S. Hahm	Theory, Simulation, and Experimental Studies of Zonal Flows	1561
P4.082/F	A.Yu. Dnestrovskij	Simulation of the Energy and Particle Transport in START and T-10 Tokamaks	1565
P4.084/B	Ch. Simintzis	Analytic Magnetohydrodynamic Equilibria of a Magnetically Confined Plasma with Incompressible Flows	1569
P4.086/G	M.L. Apicella	Effects of wall titanium coating on FTU plasma operations	1573

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P4.088/G	G.F. Counsell	Divertor Power Loading Studies in the MAST tokamak	1577
P4.089/G	A.A. Korotkov	Edge Plasma Pressure Profile Evolution in Type I ELM Discharges on JET	1581
P4.090/G	T.K. Soboleva	Electron and Ion Heat Fluxes in the SOL Plasmas	1585
P4.091/G	L. Vahala	Multi-Species Equilibration using Thermal Lattice Boltzmann Simulations	1589
P4.094/G	K. Shimizu	Impurity Behavior in MARFE Plasma	1593
P4.095/G	T. Hatae	Scaling of Edge Pedestal Parameters Using the International Pedestal Database	1597
P4.097/G	M. Koubiti	Modelling of asymmetric D-alpha line shapes for the edge of the Tore-Supra Tokamak operated with the Ergodic Divertor	1601
P4.098/G	R. Maingi	Initial Wall Conditioning and Impurity Control Techniques in NSTX	1605
P4.099/H	Z.A. Pietrzyk	Improved internal confinement by current profile modification in shaped plasmas using ECRH and ECCD in TCV	1609
P4.102/H	F. Meo	ICRF Fast Wave and Mode Conversion Current Drive Scenarios on ASDEX Upgrade	1613
P4.103/H	W. Ott	Plasma Build-Up in W7-AS Stellarator by Neutral Beams Alone	1617
P4.104/H	N. Rust	Confinement of Neutral Beam Injected Fast Ions in W7-AS	1621
P4.105/H	M. Brambilla	Ray tracing of ion Bernstein waves excited by mode conversion in Tokamak plasmas	1625
P4.106/H	D.W. Faulconer	FRACTURED SUPERADIABATICITY FOR WAVE HEATING/CURRENT DRIVE	1629
P4.108/I	T. Soetens	Quantitative Beam Emission Spectroscopy on TEXTOR-94.	1633
P4.109/I	G. Bonheure	First measurements of 14.7 MeV proton fusion products at TEXTOR-94	1637
P4.110/I	T. Kurki-Suonio	Radial Electric field and Neoclassical Effects in FT-2 Tokamak	1641
P4.111/I	S. Sipilä	Toroidal Orbit-Following Simulation of Ion Temperature Measurements from NBI Tail Distribution in ASDEX Upgrade	1645
P4.112/I	Vl. Weinzettl	Space and Time Resolved XUV Spectroscopy of C V and O VII Lines	1649
P4.113/I	K. Dyabilin	Ion Flows Measurement using a Rotating Mach Probe on the Castor Tokamak	1653

<i>No./Topic</i>	<i>First Author</i>	<i>Title</i>	<i>Page</i>
P4.114/I	G. Leclert	Two-dimensional fluctuation reflectometry: a comparison of analytical expressions for the Bragg back-scattering by localized perturbations and numerical results from a full-wave code	1657
P4.115/I	S. Hacquin	STUDY OF THE EFFECT OF COHERENT DENSITY FLUCTUATIONS IN O-MODE PULSE REFLECTOMETRY	1661
P4.116/I	M. Colin	Modeling of X-mode reflectometry: effect of density and magnetic fluctuations on the back-scattered wave amplitude	1665
P4.117/I	F. Volpe	Development of an electron Bernstein emission diagnostic for temperature profiles above the ECE cutoff density at Wendelstein 7-AS Stellarator	1669
P4.118/I	J.P. Knauer	A high resolution Thomson scattering system at W7-AS	1673
P4.119/I	A. Serban	Correlation of Neutron Anisotropy with Neutron Yield and Soft X-ray Production from a Plasma Focus	1677
P4.121/I	D.S. Gray	Fast Time-Scale Radiometry of DIII-D Disruptions	1681
P4.124/J	S.I. Popel	Nonlinear Waves in Dusty Plasmas and the Effect of Electromagnetic Radiation	1685
P4.127/J	J.L. Ferreira	Experimental Studies of Electron Cyclotron Resonance Production in A Multi Magnetic Mirror Machine	1689

Post Deadline Papers

D1.001/B	I. Ďuran	Validity of Self-Organized Criticality model for the CASTOR tokamak edge plasmas	1693
D1.002/B	F.C. Schüller	First results of ECRH on TEXTOR: filaments, barriers, and RI-mode	1697
D1.003/C	S. Varró	Single Particle Analysis of Second and Third Harmonic Generation on Solid Surfaces	1701
D1.004/B	M. Gryaznevich	First results from MAST	1705