

Contents

Part IV: Poster Session S

Title	Presenting Author	Page No:
• Experiments with TF Ripple in JET	Tubbing B	IV-001
• Multi-Mode Feature of Tokamak Small-scale Density Fluctuations	Vershkov VA	IV-005
• Disruption and VDE Characterization for ITER	Ortolani S	IV-009
• X-Ray Spectrum Evolution in Startup Phase and during Major Disruption in the TVD Tokamak	Shurygin VA	IV-013
• MHD-Activity Suppression by Pellet Injection into Plasma Periphery in T-10 Tokamak	Ivanov N	IV-017
• Possible Safe Termination by Injection of Polyethylene Pellets in JET	Schmidt GL	IV-021
• The Issue of Internal Modes in Ignition Experiments, Prototype Construction and Perspectives for IGNITOR	Coppi B	IV-025
• MHD-mode Stabilization by Plasma Rotation in TEXTOR	de Vries PC	IV-029
• MHD Analysis of High β_p H-mode Induced by a Mini-Collapse	Takeji S	IV-033
• Characteristics of Disruptions on ASDEX-Upgrade and their Physical Interpretation	Pautasso G	IV-037
• Investigation of the Fishbone-Instability in ASDEX Upgrade	Kass T	IV-041
• Experimental Investigations of the Current Termination Phenomenon in Rotamak Discharges	Jones I	IV-045
• DIII-D Disruption Experiment Results	Taylor P	IV-049
• Use of an m=2, n=1 Static Error Field Correction Coil, "The C-Coil," on DIII-D to avoid Disruptive Locked Modes	La Haye RJ	IV-053
• Experimental Studies of the T-10 Plasma Quench using High-Z Impurity Pellet Injection	Sergeev V Yu	IV-057
• Influence of MHD Instabilities on JET High Performance	Smeulders P	IV-061

Title	Presenting Author	Page No:
• A Mechanism for the Sawtooth Instability in Shearless and Shear Reversal Equilibrium with $q > 1$	Edery D	IV-065
• Plasma Scram in ITER L-mode Ignited Plasmas	Villar Colomé J	IV-069
• $m=2, n=1$ Sawtooth-Like Activity on TORE SUPRA	Turlur S	IV-073
• Comparison of Experimental and Theoretical Growth Rates of the Vertical Instability in TCV	Dutch MJ	IV-077
• MHD Operational Limits and Disruption Statistics in TCV Ohmic Plasmas	Pochelon A	IV-081
• MHD Spectroscopy, Application of a New Diagnostic Tool	Holties HA	IV-085
• H-mode and L-mode Confinement in ASDEX Upgrade: Comparison under Conditions with Low and High H-mode Power Threshold	Ryter F	IV-089
• Relativistic Runaway Electrons in TEXTOR and ITER	Jaspers R	IV-093
• BES Density Fluctuation Measurements on Text-U and Comparison with other Diagnostics	Karzhavin Y	IV-097
• Investigation of Magnetic and Density Fluctuations in TORE SUPRA during Additional Heating	Devynck P	IV-101
• The Influence Plasma Species on Density Fluctuations in TFTR	Paul SF	IV-105
• Reflectometer Measurements of Turbulent Fluctuations in Deuterium and Tritium Plasmas in TFTR	Mazzucato E	IV-109
• Shear Reversal Experiments on JET	Söldner FX	IV-113
• The Effect of Current Profile Control on the β -limit in the COMPASS-D Tokamak	Gates DA	IV-117
• Simulations of Current Drive and Current Profile Control in the Tokamak Physics Experiment (TPX)	Bonoli PT	IV-121
• Discharges with High Bootstrap Current Fraction on TORE SUPRA	Joffrin E	IV-125
• Current Density Profile Measurement and Current Diffusion Experiments on TEXT-Upgrade	Brower DL	IV-129
• Analysis of Rotating ($m=1, n=1$)-Modes as seen in Soft X-ray Radiation and its application to Current Profile Identification	Bessenrodt-Weberpals M	IV-133
• Production and Stability of High-Beta DIII-D Discharges with Reversed Magnetic Shear	Mauel ME	IV-137

Title	Presenting Author	Page No:
• High Current Operation with the New JET Divertor	Sartori R	IV-141
• Effect of Bootstrap Current on MHD Equilibrium in Heliotron/Torsatron	Nakamura Y	IV-145
• Status of CHS Experiments and its Prospect	Watari T	IV-149
• Measurements of $H/(H+D)$ Ratios in ICRF Heating Experiments of CHS	Ozaki T	IV-153
• Comparative Studies of Edge Turbulence in Stellarator Devices	Estrada T	IV-157
• Turbulence Studies in W7-AS by AM and Carrier Phase Reflectometry	Brañas B	IV-161
• Investigation of Turbulence with Wavelet Bicoherence	van Milligen B	IV-165
• Dynamics of an Electron Beam and that of the Hard X-Ray Radiation Spectrum in the Plasma Focus Discharge	Filippov NV	IV-169
• Radial Distribution of Sloshing Ions in GDT	Mizuno N	IV-173
• Enhanced Density Fluctuation Phenomena related to Magnetic Locked Modes on RFX	Garzotti L	IV-177
• Analysis of Wall Locking Phenomena and their Consequences in RFX	Martines E	IV-181
• Improved RFX Operation by Active Magnetic Field Control	Piovan R	IV-185
• Superthermal Electron Generation and Transport in the Reversed-Field Pinch	Giruzzi G	IV-189
• Energy Balance and Stability of GDT Plasma under Neutral Beam Heating	Ivanov AA	IV-193
• Effect of Viscous Dissipation on the Generation of Shear Flow at a Plasma Edge in the Guiding Center Approximation	Manfredi G	IV-197
• Vlasov Gyrokinetic Simulations of Ion-Temperature-Gradient Driven Instabilities	Manfredi G	IV-201
• 3-D Tokamak Edge Turbulence	Zeiler A	IV-205
• Ship Waves in Rotating Plasma and L-H Transitions in Tokamaks	Pavlenko VP	IV-209
• Effects of Resonant Magnetic Perturbations on Divertor Target Power Loads in COMPASS-D	Buttery RJ	IV-213

Title	Presenting Author	Page No:
• Instabilities of Electrostatic Modes and Associated Nonthermal Transports and Coherent Structures in Impurity Containing Inhomogeneous Plasmas	Shukla PK	IV-217
• Turbulent Electrosatatic Fluctuations with the Scales dependent on the Debye Radius and Fluctuational Electric Fields in a Tokamak	Gott Yu V	IV-221
• Stability Conditions for Collisionless and Collisional MHD Modes in the Gyrokinetic Description	Zheng LJ	IV-225
• Anomalous Plasma Transport in a Stochastic Magnetic Field Structure	Itoh S I	IV-229
• Linear Electrostatic Gyrokinetic PIC Code for Trapped Ion Modes in Toroidal Geometry	Appert K	IV-233
• Nonlinear Development of a Plasma Turbulence in the Presence of Self-induced Current Diffusion	Itoh S	IV-229
• Spectra and Mode Structure of Global Drift Modes in Toroidal Geometry	Brunner S	IV-241
• Spectral Properties of Toroidal η_i Mode Turbulence in Tokamaks	Pavlenko VP	IV-245
• Anomalous Energy Confinement in Tokamaks is explained by Magnetic Turbulence	Sabot R	IV-249
• Correlation Lengths of Electrostatic Turbulence	Guiziou L	IV-253
• Anomalous Electron Flow and Ambipolar Electric Field in Non-Maxwellian Plasma	Voitsek-hovitch I	IV-257
• Fast Electron in a Stochastic Magnetic Field	de Rover M	IV-261
• Combined Analysis of Steady-state and Transient Transport by the Maximum Entropy Method	Giannone L	IV-265
• Modification of Runaway Dynamics by Magnetic Turbulence	Castejón F	IV-269
• Kinetic Description of Electromagnetic Fluctuations in Plasmas with Large-Scale Random Motions	Zagorodny AG	IV-273
• Wall Conditioning and Plasma Surface Interaction in the Extrap T2 Reversed Field Pinch	Larsson D	IV-277
• Experimental Studies and Modelling of Layer Deposition on Limiter Surfaces by Local Gas Injection in TEXTOR	Winter J	IV-281
• B2-Eirene Modelling of the CDH Mode in ASDEX-Upgrade	Schneider R	IV-285

Title	Presenting Author	Page No:
• Numerical Modelling of Edge Plasma Parameters during Neon Injection in FTU and comparison with Experimental Results	Gabellieri	IV-289
• 2D-Model Calculations of Carbon Density and Radiation Profiles within the Minor Cross-Section of TEXTOR	Claassen HA	IV-293
• Multifluid Modelling of Radiative and Detached Edge Plasmas and comparison with JET Experimental Results	Taroni A	IV-297
• Modelling of Particle Collection by Vented Limiters	Tsitroni E	IV-301
• TPX Divertor Modelling Studies	Rensink M	IV-305
• Modelling of Helium Exhaust in COMPASS-D	Maddison G	IV-309
• Topological Aspects of Island Divertor in W7-AS	Das J	IV-313
• Divertor Detachment, Radiation Capability and Transition from Attached State	Igitkhanov Yu	IV-317
• Consistent Core-Edge Plasma Modelling for TEXTOR Plasmas with Low Z Impurities	Baelmans M	IV-321
• Edge Transport and Modelling in W7-AS Stellarator	Sardei F	IV-325
• Optimisation of the Divertor Geometry for ITER	Kukushkin A	IV-329
• Effect of Slow High-Power Transients on ITER Divertor Plates and Limiter Components	Pacher HD	IV-333
• Poloidally Asymmetric Emission of Visible Light in RTP	Ingesson LC	IV-337
• Analysis of the Magnetic Field Structure generated by a Resonant Perturbation Coil System proposed for TEXTOR	Nicolai A	IV-341
• A Quantitative Study of the Carbon Impurity Production Mechanisms from an Inertial Limiter in TORE SUPRA as determined by Visible Spectroscopy	Tobin SJ	IV-345
• Evaluation of Wall Particle Content for Optimized Operation of TORE SUPRA	Grisolia C	IV-349
• Mode-Converted Ion-Bernstein Waves in Tokamaks	Ram AK	IV-353
• Alfvén Wave Heating of Plasma in Additional Alfvén Resonances in Stellarators	Stepanov K	IV-357
• Electron Heating by the Fast Wave and a Mode Converted Ion Hybrid (Bernstein)Wave in a Deuterium-Tritium Plasma	Lashmore-Davies CN	IV-361
• Neutral Beam Heating and Current Drive in Tight Aspect Ratio Tokamaks	Counsell G	IV-365

Title	Presenting Author	Page No:
• Wave Propagation and Absorption During ECRH at the Fundamental Resonance of 140 GHz on the FTU Tokamak	Nowak S	IV-369
• Experiments with “Quasi-Optical Grill” on Tokamak CASTOR	Zacek F	IV-373
• Enhancement of Current Drive Efficiency by Simultaneous Excitation of Stimulated Raman Backward and Forward Scattered Waves	Demchenko V	IV-377
• Alfvén Wave Current Drive and Heating in the Phaedrus-T Tokamak	Hershkowitz N	IV-381
• Parametric Mechanism of the Current Drive Switch-Off in the FT-2 Tokamak	Lashkul S	IV-385
• Non-WKB Terms and Ray-Tracing in the Lower-Hybrid Range in a Tokamak	Gusakov EZ	IV-389
• Study of Multipass Regimes in Lower Hybrid Current Drive Experiments on TORE SUPRA	Arslanbekov R	IV-393
• Lower Hybrid Coupling and Impurity Generation in TORE SUPRA	Goniche M	IV-397
• Developing of 2D Full-Wave Ordinary Mode Simulation Code for Real T-10 Reflectometry Geometry	Vershkov VA	IV-401
• Advanced Signal Processing Techniques Used for Information Extraction From Single and Multiple-Point Reflectometry at JET	Bak PE	IV-405
• Two-dimensional Effects of Radial and Poloidal Fluctuations in Ordinary Mode Reflectometry	Fanack C	IV-409
• Continuous Phase Derivative Evaluation for Routine Density Profile Measurements with FM Broadband Reflectometry	Silva A	IV-413
• Initialisation of Density Profiles from Reflectometry Data	Varela P	IV-417
• First Density Profile Measurements by Multifrequency Pulse Radar Reflectometry in START	Shevchenko V	IV-421
• New Microwave Measurements of Electron Density and Temperature in the JET Divertor	Prentice R	IV-425
• Toroidal Correlation Reflectometry for q-Profile Estimation in TJ-I Tokamak	Estrada T	IV-429
• Two-dimensional Effects of Turbulence in Density Profile Measurements by Reflectometry	Zhuravlev V	IV-433

Title	Presenting Author	Page No:
• Double Filter Electron Temperature Measurements with High Time Resolution in RFX	Martin P	IV-437
• Measuring the Line-Averaged Density by the Time Delay of Short Microwave Pulses	Heijnen SH	IV-441
• Weak Turbulence Theory and Modulational Processes	Popel SI	IV-445
• Poloidal Spin-Up and Electric Field Generation related to Displacement Current and Transport	Minardi E	IV-449
• Expansion of the Bounded Plasma with Dust Particles	Schram PPJM	IV-453
• Forced Reconnection in a Plasma Slab	Rem J	IV-457
• Studies of Tearing Mode Control in JET	Santagiustina A	IV-461
• Convection and Impurity Retention in the JET MkI Pumped Divertor during L-mode	Harbour PJ	IV-465
• Development of Operation Modes for Advanced Tokamak Research in KT-2 Tokamak	Hong B	IV-469
• Observation and Interpretation of Thermal Instabilities at the Front Face of Actively Cooled Limiters in TORE SUPRA	Guilhem D	IV-473