

Monday 3rd July

Time	Title		Page
0900 - 1015	PLENARY SESSION		
	Chairman: J Winter		
0900	Opening Ceremony		
0930	RL01	Keilhacker M JET Results with the New Pumped Divertor and Implications for ITER	1
1015	COFFEE		
1045 - 1200	PLENARY SESSION		
	Chairman: D R Sweetman		
1045	TL01	Jaenicke R High Power Heating Experiments on WENDELSTEIN 7-AS Stellarator	2
1115	RL02	Janeschitz G Status of ITER	3
1200	LUNCH		
1300 - 1800	POSTER SESSION P (124 Posters)		
1400 - 1600	ORAL SESSION		
	Chairman: I Hutchinson		
1400	Or01	Philipps V Studies of High-Z Wall Components in TEXTOR 94: Local Impurity Release and its Impact on the Plasma Core	4
1420	Or02	Morris AW H-mode, β -limit and Instability Studies on COMPASS-D	5
1440	Or03	Gervais F Spatial Localization of Turbulence during the Sawteeth Crash	6
1500	Or04	Pitcher CS Scrape-Off Layer Plasma Pressure Balance in Asdex-Upgrade	7
1520	Or05	Porkolab M ICRF Heating and Enhanced Confinement Modes in Alcator C-Mod	8
1540	Or06	Ascasibar E Recent Results in TJ-I U Torsatron	9
1600	TEA SERVED		
1700 - 1800	PLENARY SESSION		
	Chairman: G Fussmann		
1700	TL02	Tereshin VI Quasi-Stationary Plasma Accelerators (QSPA) and their Application	10
1730	TL03	Allen S Recent DIII-D Divertor Research	11
1800	END OF SESSION		

Poster Session P (124 Posters)

Paper No:	Title	Presenting Author	Page No:
P001	Confinement Studies in TEXT	Wootton A J	12
P002	Nonlocal Transport Effects in Tokamak Electron Temperature Responses	Gentle K	13
P003	ITER Relevant ρ^* Scaling Experiments in JET H-modes	Balet B	14
P004	Transport Analysis of the Giant ELM's in JET	Parail V	15
P005	Improved Confinement and Transport Barrier in JT-60U	Koide Y	16
P006	Determination of Central Particle Transport in ASDEX Upgrade	Gehre O	17
P007	Transport Analysis of Completely Detached H-Mode Plasmas in ASDEX Upgrade	Becker G	18
P008	Influence of Edge Instabilities on JET High Performance	Hender TC	19
P009	TUMAN-3M Operation with Improved Confinement	Lebedev S	20
P010	Magnetic Shear Dependence in Heat Transport on Tore Supra Comparison with Local RLW Model	Guiziou L	21
P011	New Dimensionless Scaling Law of Global Energy Confinement in Tore Supra for Ohmic Plasmas	Zou XL	22
P012	Investigation of the Electron Heat Pulse Propagation as Function of the Toroidal Magnetic Field at TEXTOR	Kramer-Flecken A	23
P013	The Results of Injected Impurity Diffusion Studies in OH and ECR T-10 Plasma	Vershkov V	24
P014	Analysis of Cold Pulses Produced by Impurity Injection in JET	De Angelis R	25
P015	Neon Exhaust on TEXTOR-94 with Radiative Edge Cooling	Mank G	26
P016	Helium Exhaust and Transport Studies in the TEXTOR-94 Tokamak	Post Zwicker AP	27
P017	Behaviour of Laser Ablated Impurities in ASDEX Upgrade Discharges	Neu R	28
P018	Measurement and Modelling of Neon Line Emission and Total Radiation Profiles of Radiating Boundary Discharges in ASDEX Upgrade	Dux R	29
P019	Impurity Transport During H-Mode with Edge Ergodization	Ogawa H	30
P020	Molybdenum Transport Analysis on FTU	Gabellieri L	31
P021	Bulk Plasma Impurity Behaviour with the New JET Configuration	Barnsley R	32
P022	A Scaling Law for the Confinement Time of Non-Recycling Injected Impurities in JET and Tore Supra	Giannella R	33

Paper No:	Title	Presenting Author	Page No:	Paper No:	Title	Presenting Author	Page No:
P023	Possible Semi-Empirical Drift-Wave Models for the Simulation of Impurity Transport and Their Comparison with JET Experiments	Lauro Taroni L	34	P044	Effect of Aspect Ratio on $m=1$ Spectrum Dynamics in the Reversed-Field Pinch	Mazur S	55
P024	Sawteeth-induced Impurity Transport in Tokamak Plasmas	Odblom A	35	P045	Characteristics of Edge Electrostatic Fluctuations in the Extrap T1 Reversed-Field Pinch	Li GX	56
P025	Ion Transport and Impurity Accumulation During Ohmic H-Modes in the COMPASS-D Tokamak	Peacock N	36	P046	Density Effects on the Global Power Balance in the Extrap T1 Reversed-Field Pinch	Hedin G	57
P026	Identification and Measurement of Core Plasma Turbulence by Observation of Fast Electrons in Text-U	Giruzzi G	37	P047	First Results from the International RFP Confinement Database	Martin P	58
P027	Evolution of Density Microturbulence During L, H, and VH Mode in DIII-D	Rettig C	38	P048	Toroidal Stabilization of Resistive-Wall Instability of External Kink Modes in a Rotating Plasma	Mikhailovskii AB	59
P028	Monitoring of Internal RF Electric Fields using Reflectometry on DIII-D	Rhodes T	39	P049	Dispersion Relations for Quasi-Flute Modes in Toroidal Plasma Configurations	Burdo O S	60
P029	Pellet Injection into H-Mode Plasmas on DIII-D	Baylor L	40	P050	Stabilization of the Ideal $m=1$ Internal Kink by Ion Cyclotron Resonant Heating	McClements K	61
P030	Improved Confinement Regime Induced by Injection of a Slow Deuterium Pellet into ECRH T-10 Tokamak Plasmas	Rozhansky V	41	P051	Time Evolution of Moderate-n Resistive Ballooning Modes in Tokamaks	Lütjens H	62
P031	Hydrogen Pellet Ablation in Neutral Beam Heated Plasmas	Kuteev B	42	P052	MHD Stability of Reversed Shear Current Profiles	Hughes M	63
P032	Flow Structures of an Ablation Cloud with the On- and Off-Axis Pellet Injection in the JIPP T-IIU Tokamak	Sakakita H	43	P053	Ballooning Representation for Perturbations in the Presence of Shear Flows	Tessarotto M	64
P033	Pellet Injection Experiments in TEXTOR	Sander M	44	P054	Disruption Control by the $m/n=9/5$ Static Helical Magnetic Field	Yu Q	65
P034	Non-adiabatic Pellet Ablation on the RTP Tokamak	Oomens M	45	P055	Influence of Edge Currents and Pressure Gradients on the MHD Stability of Low-n External Kink Modes	Huysmans G	66
P035	Multiple Pellet Injection in TEXTOR94	Sander M	46	P056	Nonlinear Theory for Interaction of Tearing Mode with Error Field in Cylindrical Geometry	Zhang YZ	67
P036	Measurements of Connection-Length Distribution in Heliotron-E Edge Region and its Limiter Effects	Sano F	47	P057	The Change in the H-mode Dynamics due to Ripple Loss of Fast Ions	Toda S	68
P037	Peaked Density Profiles and Wave Propagation in ECH Plasma on Heliotron-E	Nagasaki K	48	P058	External Kink Modes in a Large Aspect Ratio Bootstrapped Tokamak	Eriksson G	69
P038	Measurements in the Edge Plasmas of Heliotron-E During ECH and NBI Heating	Peterson B	49	P059	Stability Analysis of the $m=n=1$ Kink Mode in Toroidal Geometry by Direct Expansion of the Hydromagnetic Equations	Wahlberg C	70
P039	Dipole Pfirsch-Schluter Toroidal Plasma Current in a Finite-Beta Helical Plasma on Heliotron-E	Besshou S	50	P060	Influence of Plasma Near Separatrix on Ideal MHD Stability in Tokamaks	Medvedev S	71
P040	Electrostatic Fluctuation Measurements of the H-mode Plasma in CHS Heliotron/Torsatron	Ohdachi S	41	P061	MARFE's: A Magnetohydrodynamic Stability Study of General Tokamak Equilibria	De Ploey A	72
P041	ECRH Effects on the Fast Ion Slowing-Down Process in Heliotron E	Kurimoto Y	52	P062	Mechanism of Vertical Displacement Event in JT-60U Disruptive Discharge	Nakamura Y	73
P042	Plasma Confinement Study with NBI and ECR Combination Heating in Helitron E	Okada H	53	P063	Computation of Fluid Dynamics in Tokamak Geometry: Turbulence and Transport	Scott B	74
P043	Steady State RFP Configuration with Toroidal Voltage and Alpha Dynamo	Saito K	54				

Paper No:	Title	Presenting Author	Page No:	Paper No:	Title	Presenting Author	Page No:
P064	Local Stability Criteria and Type I Edge Localized Modes	de Blank H	75	P084	Neutral Gas Pressure Measurements in the JET MK I Pumped Divertor	Ehrenberg J	95
P065	Magnetic Coordinates and Geodesic Curvature Minimisation for Tokamak Configurations	Mancuso A	76	P085	Main Chamber Recycling in the New JET and Its Effect on Performance	McCormick K	96
P066	Stabilization of Global MHD Instabilities by Toroidal Plasma Flow	Chu MS	77	P086	Particle Exhaust of Helium Plasmas with Actively Cooled Outboard Pump Limiter on Tore Supra	Uckan T	97
P067	Bifurcations and Magnetic Reconnection	Tebaldi C	78	P087	Particle Exhaust and Wall Pumping Studies in ASDEX Upgrade	Haas G	98
P068	First Modelling of Island Rotation in Tokamaks	Talvard M	79	P088	Divertor Particle Exhaust and Wall Inventory on DIII-D	Maingi R	99
P069	Collisionless Ballooning Modes in a Toroidal Two-Ion-Component Plasma	Jarmen A	80	P089	Simulation of ExB Diffusion of Ions in the Potential Fluctuations	Krlin L	100
P070	The Effect of Sheared Axial Flow on the Linear Stability of the Z-pinch	Arber T	81	P090	Electric Fields from Ripple-Trapped Particle Diagnostics During L/H Transition and ELMs	Herrmann W	101
P071	Isolated Magnetic Islands in a High Temperature Tokamak Plasma	Connor JW	82	P091	Electric Field Near The Emitting Surface and Unipolar Arc Formation	Rozhansky V	102
P072	On the Solution of $j \times B$ Current Drive Equations in a Spherical Plasma	Xu S	83	P092	Investigation of Momentum Detachment in a Static Gas Target	Borrass K	103
P073	Stochastic Diffusion in Presence of Mode Locking in Reversed Field Pinch	Paccagnella R	84	P093	High Power ECRH in COMPASS-D	Whitehurst A	104
P074	The Transport Coefficients of a Fusion Plasma on an Intermediate MHD Timescale	Edenstrasser J	85	P094	Enhanced Loss of Ions from Neutral Injection due to Stochastic Ripple Diffusion on Asdex Upgrade	Noterdaeme JM	105
P075	Role of Radial Electric Field on Edge Turbulence and Transport in HL-I	Ran Li Bo	86	P095	Kinetic Description of ECRH Produced Suprathermal Electrons in the Wendelstein 7-AS Stellarator	Rome M	106
P076	Stochastic Structure of Edge Turbulence in Tokamaks	Budaev VP	87	P096	ECRH Absorption of Second Harmonic X- and O-Mode at the W7-AS Stellarator	Laqua H	107
P077	Study of Plasma Edge Turbulence via Conditional Probability Density Functions	Bengtson D	88	P097	Heating Power Density Profile and Power Balance during ECRH at 140 GHz, 0.5 MW, Fundamental Resonance, of the FTU Tokamak	Granucci G	108
P078	The Effects of Connection Length on the Radial Profile of Fluctuation Induced Flux in Heliotron E	Zushi H	89	P098	Numerical Investigation of the Cross-Effect on ECRH and LHCD in Tokamak Plasmas	Tribeche M	109
P079	Edge Fluctuations and Transport in The TBR-I Tokamak	Da Silva R	90	P099	Power Dependence of Efficiency of a ECR Current Drive on First and Second Harmonics in Conditions of a Tokamak T-10	Kuyanov A	110
P080	Measurements of Turbulent Transport and T_e Fluctuations in TEXTOR	Boedo J	91	P100	ECCD and ECH Influence on Sawtooth Oscillations on T-10	Kislov D	111
P081	Edge Turbulence Measurements During the L- to H-Mode Transition by Phase Contrast Imaging on DIII-D	Porkolab M	92	P101	Radial Distribution of Suprathermal Electrons Measured with ECE	Preisiche S	112
P082	Scrape-Off Layer Turbulence in the ASDEX Tokamak and the Wendelstein 7-AS Stellarator: Electron Temperature Fluctuations and Structures	Theimer G	93	P102	Current Drive and Profile Control in Low Aspect Ratio Tokamaks	Chan V	113
P083	Comparative Studies of the Plasma Edge Turbulence in the TJ-IU Torsatron and in the TJ-I Tokamak	Pedrosa MA	94	P103	First Results on Fast Wave Current Drive in Advanced Tokamak Discharges in DIII-D	Prater R	114
				P104	First Results on ECCD in RTP	Polman RW	115

Paper No:	Title	Presenting Author	Page No:
P105	Response of the Plasma Confinement on Shear Modification by Electron Cyclotron Current Drive at W7-AS	Erckmann V	116
P106	Simultaneous Measurement of Electric Field and Electron Density Fluctuations in Magnetized Plasma by Means of Atomic/Molecular Beam of Hydrogen Isotopes	Kabantsev A	117
P107	Toothbrush Probe for Measurement of Radial Profile and Estimation of Transport Coefficients in Tokamak Boundary Plasma	Uehara K	118
P108	Optimization of Discharge Parameters for the JET Collective Thomson Scattering Experiment	Orsitto F	119
P109	Langmuir Probe Characteristic in a Current-Carrying Magnetized Plasma	Stanojevic M	120
P110	Experimental Evidence of Dynamical Effects on I-V Characteristic of Fast Swept Langmuir Probe	Anabitarte E	121
P111	Measurements of Energetic Confined Alphas and Tritons on TFTR	Medley S	122
P112	Quantative Analysis of Deuterium and Helium after Plasma Shots by Means of Resolved Mass Spectrometry	Gauthier E	123
P113	Consistency and Precision of TCV Magnetic Measurements	Moret JM	124
P114	Tokamak Investigations by Visualisation of Magnetic Field Perturbation	Mirnov S	125
P115	Can Radiofrequency Langmuir Probes Measure SOL Ion Temperature	Verplancke P	126
P116	First Results on Ion Temperature Measurements by Collective Scattering of 140 GHz Gyrotron Radiation at W7-AS	Suvorov E	127
P117	A New Approach to the Evaluation of I-V-Characteristics and Application to Highly Collisional Divertor Plasmas	Gunther K	128
P118	Drift Wave Trapping by Dipole Vortices	Davydova TA	129
P119	Sheared Flow Driven Drift-Dispersive Alfvén Waves in Laboratory Plasmas	Shukla PK	130
P120	Observation of Short-Wavelength Ion-Acoustic Waves Accompanying Strong Langmuir Turbulence in a Magnetized Plasma	Burmasov V	131
P121	Electrostatic Waves in Plasmas with Suprathermal Particles	Hellberg M	132
P122	Ion Resonance Cones in Plasmas	Riccardi C	133
P123	Plasma Dielectric Tensor in a Tokamak	Puri S	134
P124	Magnetic Reconnection in Collisionless Regimes	Coppi B	135

Tuesday 4th July

Time	Title	Page
0830 - 1015 PLENARY SESSION		
Chairman: R Weynants		
0830 RL03	Neuhauser J The Compatibility of High Confinement Times and Complete Divertor Detachment in ASDEX-Upgrade	139
0915 TL04	Loarer T Exhaust Experiments in Highly Radiating Edge Conditions with Pump Limiters, Ergodic Divertor and Vented Limiters in Tore-Supra	140
0945 TL05	Moret JM Ohmic H-mode and Confinement in TCV	141
1015 COFFEE		
1045 - 1200 PLENARY SESSION		
Chairman: V Golant		
1045 TL06	Matthews G Highly Radiating and Detached Plasmas with Carbon and Beryllium Targets	142
1115 RL04	Hidalgo C Edge Turbulence and Anomalous Transport in Fusion Plasmas	143
1200 LUNCH		
1300 - 1800 POSTER SESSION Q (122 Posters)		
1400 - 1600 ORAL SESSION		
Chairman: F Alladio		
1400 Or07	Buratti P Transport Analysis of FTU Plasmas with High Power Density ECRH at 140 GHz	144
1420 Or08	Jaspers R Relativistic Runaway Electrons in TEXTOR and ITER	145
1440 Or09	de Michelis C Atomic Physics and Plasma-Wall Interaction Effects on Particle Screening and Radiative Behaviour of Ergodic Divertor Edge Plasmas in Tore Supra	146
1500 Or10	Rowan W The SOL in Diverted Discharges in the Texas Experimental Tokamak	147
1520 Or11	Buttery RJ ELM Related MHD Activity on the Compass-D Tokamak compared with ASDEX-Upgrade	148
1540 Or12	Kisslinger J Island Divertor Studies for the Stellarator Wendelstein 7-X	149
1600 TEA SERVED		
1700 - 1800 PLENARY SESSION		
Chairman: K Itoh		
1700 TL07	Tokar M Influence of Impurities on Tokamak Plasmas and Relevant Mechanisms	150
1730 TL03	Itami K Recent Results from JT-60U	151
1800 END OF SESSION		

Poster Session Q (122 Posters)

Paper No:	Title	Presenting Author	Page No:
Q001	H-mode, β -limit and Instability Studies on COMPASS-D	Morris AW	152
Q002	Characteristics of Radiative Boundary Discharges with Different Impurity Injection Conditions	Kallenbach A	153
Q003	Helium Transport Experiments at JET	von Hellerman M	154
Q004	Evidence of Strongly Inhomogeneous Electron Heat Diffusivity in RTP	Hogeweij D	155
Q005	MHD Activity and Operational Limits on START	Gryaznevich M	156
Q006	Instability Control on COMPASS-D	McArdle G	157
Q007	H-Mode Thresholds and MHD Stability in COMPASS-D	Fielding S	158
Q008	Estimate of Magnetic Reconnection Using Soft X-Ray Tomography of Sawtoothed RTP Plasmas with Intense ECR Heating	Tanzi C	159
Q009	Measurement and Modelling of Energy Distribution Function of ICRF Driven Protons in JET	Stuart A	160
Q010	Runaway Electron Diffusion Measurements in the JET Tokamak	Esposito B	161
Q011	New Insight into Runaway Electrons Production and Confinement	Martin G	162
Q012	New TORE SUPRA Steady State Operating Scenario	Martin G	163
Q013	Current Carrying Regimes in Tokamaks with Inclined Toroidal Field Coils	Moroz P	164
Q014	Evolution and Optimisation of Neutron Emissivity Profiles in JET	Marcus FB	165
Q015	Measurement of Atomic Hydrogen Fluxes in MeV-energy Range on ICRF-heated JT-60U Plasmas	Afanassiev VI	166
Q016	Triton Burnup Study in JT-60U	Nishitani T	167
Q017	Comparison of JET and DIII-D Temperature and Density Profile Shapes and Their Parametric Dependence	Schissel DP	168
Q018	Quasi Steady State Advanced Tokamak Scenarios in JET	Challis CD	169
Q019	Density Scaling of the H-mode Power Threshold in JET	Righi E	170
Q020	Toroidal Momentum Slowing Down and Replacement Times in JET Divertor Discharges	Zastrow KD	171
Q021	The Optimisation of Recycling in High Performance Hot-Ion H-Mode JET Discharges	Lawson KD	172
Q022	High Performance High q Discharges in DIII-D	Osborne TH	173
Q023	OHM's Law for Tokamaks and Toroidal Current Drive by Radial Plasma Flow in Pellet Injection Experiments	Kalmykow S	174
Q024	Electrons and Ions Heating and Improved Confinement Regime in Lower Hybrid Heating Experiments on FT-2 Tokamak	Lashkul S	175

Paper No:	Title	Presenting Author	Page No:
Q025	Microwave Backscattering Experiment in Ohmic H-Mode Discharge in TUMAN-3 Tokamak	Bulanin V	176
Q026	Characteristics of Low-Aspect-Ration, Low q(a) Plasmas in CDX-U Tokamak	Hwang YS	177
Q027	H-mode Threshold for Ohmic Plasmas in TCV	Duval B	178
Q028	Plasma Shape Control in TCV Using MGAMS	Hofmann F	179
Q029	TF Ripple Loss of Alpha Particles in TFTR DT Experiments	Redi M	180
Q030	Improved Performance of DT Supershots in TFTR Using New Techniques of Limiter Conditioning with Lithium	Mansfield D	181
Q031	Supershot Performance with Negative Magnetic Shear	Batha S	182
Q032	Heavy Ion Beam Probe Diagnostic on TJ-I Tokamak and First Results of Plasma Parameter Measurements	Krupnik L	183
Q033	Effect of Active Pumping and Fuelling on Divertor Plasma Discharges in JET	Saibene G	184
Q034	Characterisation of Long Pulse Steady-State H-Modes in the JET Pumped Divertor Configuration	Stork D	185
Q035	Non-Maxwellian Velocity Distributions and Spatial Structures in Electron Temperature Profiles of Ohmic and EC-Heated Discharges in RTP	Box FMA	186
Q036	Toroidal and Poloidal Rotation in the COMPASS-D Tokamak	O'Connell R	187
Q037	The Pfirsch-Schluter Regime in Quasi-Symmetric Stellarators with a Helical Magnetic Axis	Nemov VV	188
Q038	Quasi-Helical Symmetry of L=1 Torsatron	Shiina S	189
Q039	An Experimental Study of Radio Frequency Produced Plasmas in the H-I Toroidal Heliac	Borg G	190
Q040	Global Internal Modes in the HI Heliac	Cooper WA	191
Q041	Investigations of Plasma Beta in TJ-IU Torsatron	Qin J	192
Q042	Ion Confinement Studies in the TJ-IU Spanish Torsatron	Zurro B	193
Q043	Recent Results in TJ-I U Torsatron	Ascasibar E	194
Q044	Determination of the Linear Z-Pinch's Parameters by Means of Laser Scattering and Interferometry	Rantsev-Kartinov V	195
Q045	Studies of Hot Spots and Their Correlations with Other Phenomena in Discharges of the PF-Type	Jakubowski L	196
Q046	Magnetic Surfaces, Plasma Confinement and Heating in Tornado-X	Abramova KB	197
Q047	Observations of a 7 μ m Carbon Fibre Z-Pinch	Beg F	198
Q048	Mega-Ampere Carbon Fibre Z-Pinch Experiments	Mitchell IH	199
Q049	Optimal Plasma Parameters of Mirror Based Neutron Source -FEF-II-	Kawabe T	200
Q050	Models of Discharge Scenario Calculations in Tokamak with Iron Core	Andreev V	201

Paper No:	Title	Presenting Author	Page No:	Paper No:	Title	Presenting Author	Page No:
Q051	Plasma Equilibrium at Intense Injection of Neutral Beams	Kotelnikov IA	202	Q077	First Results on Material Erosion in Disruption Simulation Experiments with Inclined Incidence of Plasma Stream	Arkhipov N	228
Q052	Applicability of the Rebut-Lallia-Watkins Model Used for ASDEX Discharges	Woloch F	203	Q078	Plasma Shield Formation and Divertor Plate Erosion for ITER Tokamak Plasma Disruptions	Piazza G	229
Q053	Quasi-Neutral Collisional Drift Fluids	Pfirsch D	204	Q079	In-situ Measurement of Erosion/Deposition in the DIII-D Divertor by Colorimetry	Weschenfelder F	230
Q054	Simulation of transport in the Ignited ITER with Broad Density Profiles and High Radiative Fraction	Becker G	205	Q080	Disruption-Caused Wall Erosion and Vapor Shield Formation	Lengyel L	231
Q055	Radiative Transport via Electron-Bernstein Waves	Puri S	206	Q081	Investigation of Boron Erosion and Transport in the ASDEX Upgrade Divertor	Krieger K	232
Q056	Limits of Radiative Edge Cooling by Impurities in a Fusion Reactor	Samm U	207	Q082	Investigation of Target Plate Interaction and Impurity Emission in the Divertor Region During High-Performance ELMing H-mode Discharges in ASDEX-Upgrade	Field AR	233
Q057	Transport Modelling in Tight Aspect Ratio: Testing Against START Ohmic Data and Predictions for MAST	Roach C	208	Q083	Investigation of Chemical Sputtering at the Plasma Generator PSI-I - First Experimental Results and Modelling	Bohmeyer W	234
Q058	ECRH-Assisted Start-up in ITER	Lloyd B	209	Q084	Surface Layer Composition of the JET Vessel Walls, Material Transport and Hydrogen Trapping in the Vessel Walls	Peacock AT	235
Q059	Predictive Modelling of Energy Transport in JET Discharges	Erba M	210	Q085	The Penetration of Impurity Atoms into the Plasma Boundary and its Impact on the Central Impurity Concentration	Unterberg B	236
Q060	Numerical Studies of the Dynamics of MARFEs for a Deuterium-Carbon Plasma at ASDEX-Upgrade	Schneider R	211	Q086	Chemical Erosion Measurements from Various Carbon Based Limiters and Coatings in TEXTOR	Pospieszczyk A	237
Q061	Alpha-Particle Driven TAE Instability Suppression By The Resonant RF Field	Pan'kin A Yu	212	Q087	Impurity Screening in Alcator C-Mod	McCracken G	238
Q062	Energetic Ion Effects on the Propagation and Absorption of Kinetic Alfvén Wave in Fusion Plasmas	Huang L	213	Q088	Impurity Influxes and Production Mechanisms in RFX	Puiatti ME	239
Q063	Interpretation of Ion Cyclotron Emission from Sub-Alfvénic Fusion Products in TFTR	Dendy R	214	Q089	Studies of High-Z Wall Components in TEXTOR 94: Local Impurity Release and its Impact on the Plasma Core	Philipps V	240
Q064	Modelling Collective Losses of Energetic Particles	Berk HL	215	Q090	ICRF 3-D Antenna Coupling and Fast Alpha Heating and Current Drive for Fusion Plasmas	Scharer J	241
Q065	Kinetic Toroidicity Induced Alfvén Eigenmodes in Shaped Toroidal Plasmas	Borba D	216	Q091	Physics Aspects of Coupling the ICRF A2 Antennae to JET Discharges	Lamalle P	242
Q066	On Formulation of 3D Boundary Value Problem for Fast Particle Distribution Function in Axisymmetric Tokamak Plasmas	Yavorskij VA	217	Q092	Three-Dimensional Antenna Coupling to Core Plasma in Fusion Devices	Carter M	243
Q067	Modelling the Expulsion of Helium Ash from Tokamaks at the Precessional Drift Resonance	Kam K	218	Q093	On a New Method to Compute RF Antenna Characteristics	Pecoul S	244
Q068	Non Perturbative Kinetic Effects on Alfvén Eigenmodes in Tokamak Plasmas	Jaun A	219	Q094	ICRF Heating and Enhanced Confinement Modes in Alcator C-Mod	Porkolab M	245
Q069	Influence of Alpha Particle Diffusion on Burn Dynamics in Tokamaks	Mantsinen M	220	Q095	On the Lower Hybrid Current Drive in HL-I Tokamak	Pan YD	246
Q070	Topological Transitions of Fast Ion Orbits	Porcelli F	221	Q096	Momentum and Energy Exchange Between LH Waves and MeV Alpha Particles	Sipila S	247
Q071	Particle Simulations of Transport of High Energy Ions in Tokamak Plasmas	Kashiwagi M	222	Q097	Fast Wave and Minority Ion Current Drive Experiments In JET Divertor Plasmas	Nguyen F	248
Q072	TAE-Induced Diffusion of Fast Particles in JET	Appel LC	223	Q098	Role of MHD Activity in LH-assisted Discharges in the PBX-M Tokamak	Talvard M	249
Q073	3D Calculations of Fast Ion Distributions in Tokamaks	O'Brien M	224	Q099	Synergy of LHW and Mode Converted IBW	Barbato E	250
Q074	The Distribution Function of Fusion Products at Birth	Sadler G	225	Q100	Lower Hybrid Current Drive Experiments in the TdeV Tokamak	Cote A	251
Q075	Physical Processes Governing Material Erosion during a Tokamak Disruption	Hassanein A	226	Q101	Absorption of Finite-Size LH Wave Beams in Tokamak Plasmas	Pereverzev G	252
Q076	Impurity Production and Erosion/Redeposition at the JET MKI Divertor	Guo H	227				

Paper No:	Title	Presenting Author	Page No:
Q102	A Photoelectron Spectrometer with Magnetic Analyzer (Measurements on the T-10 Tokamak)	Shurygin VA	253
Q103	Absolute Measurement of Low-Z Impurity Radiation by VUV and USXR Spectroscopy on CASTOR Tokamak	Badalec J	254
Q104	Measurement of Impurity Concentration Profiles at TEXTOR with Charge Exchange Spectroscopy	Euringer H	255
Q105	High Resolution Spectroscopic Measurements of Impurity Radiation Distributions and Neutral Deuterium Profiles in the JET Scrape-Off Layer	Breger P	256
Q106	Measurement of the Electric and Poloidal Magnetic Field in a Tokamak Device	Bertschinger G	257
Q107	Determination of Absolute Metal Impurity Densities in Tore Supra	Platz P	258
Q108	Spectral and Angular Dependence of Photodiode Response to Soft X-Rays	Anton M	259
Q109	Ultra-Soft X-Ray Spectroscopy Using Multilayer Mirrors on TCV	Weisen H	260
Q110	Interpretation of Charge Exchange Spectra Emitted by Fast ^3He during Experiments on Transport Control by ICRH on TEXTOR	Van Wassenhove G	261
Q111	Use of Heated, Diagnostic Optical Fiber for the Suppression of Transmission Loss During D-T TFTR Discharges	Tighe W	262
Q112	Observations of Ion Cyclotron Emission from Charged Fusion Products in TFTR	Majeski R	263
Q113	Time and Space Resolved Soft X-Ray Spectroscopy on RTP	Meijer FG	264
Q114	Spectroscopic Vector Tomography at RTP	Howard J	265
Q115	An Investigation of a CV Line Ratio Variation in the TJ-I Tokamak and its Sensitivity to Neutral Concentration	McCarthy K	266
Q116	The Vacuum Ultra Violet Spectrum of W VIII	Bakos JS	267
Q117	Conservation Relations in Nonlinear Interaction of Resonant and Nonresonant Waves in Nonstationary Plasma Systems	Vladimirov SV	268
Q118	Modulational Interaction of Short-Wavelength Ion Acoustic Oscillations in Dusty Plasmas	Popel SI	269
Q119	DC Plasma Potential Pattern in Low-Pressure RF Discharge	Lisovsky VA	270
Q120	Vlasov Eulerian Simulation in two Dimensions - Phase Space Holes Deflation by a Static Magnetic Field	Fijalkow E	271
Q121	A New Drift Wave Soliton in an Inhomogeneous Plasma	Nejoh Y	272
Q122	The Effects of Sub-Alvenic Shear Flow on the Resistive G-Mode	Paris RB	273

Wednesday 5th July

Time	Title	Page
0830 - 1015	PLENARY SESSION	Chairman: P E Stott
0830	RL05 Johnson D Recent Results from D-T Experiments in TFTR	277
0900 - 1300	POSTER SESSION R (125 Posters)	
1015	COFFEE	
1045 - 1245	ORAL SESSION	Chairman: N J Lopes-Cardoza
1400	Or13 Tubbing B Experiments with TF Ripple in JET	278
1420	Or14 Ryter F H-Mode and L-Mode Confinement in ASDEX Upgrade: Comparison Under Conditions with Low and High H-Mode Power Threshold	279
1440	Or15 Guilhem D Observation and Interpretation of Thermal Instabilities at the Front Face of an Actively Cooled Limiter in Tore-Supra	280
1500	Or16 Baelmans M Consistent Core-Edge Plasma Modelling for TEXTOR Plasmas with Low-Z Impurities	281
1520	Or17 Heijnen SH Measuring the Line-Averaged Density by Time Delay of Short Microwave Pulses	282
1540	Or18 Ivanov A Comparison Studies of Different Axisymmetric MHD-Anchors in GDT Experiment	283
1300	END OF SESSION AND LUNCH	
1430	DEPART FOR EXCURSION	

Poster Session R (125 Posters)

Paper No:	Title	Presenting Author	Page No:
R001	Local Transport Investigations of Different L- and H-Mode Discharge Phases in ASDEX-Upgrade	Alexander M	284
R002	Confinement of High β_p Plasmas in JET	Sips G	285
R003	Sawtooth Heat Pulse Propagation in Tokamaks: Fourier Analysis and Ballistic Response	Jacchia A	286
R004	Transport Studies in D-T Plasmas on TFTR	Synakowski EJ	287
R005	Relevance of Present Day High Field Confinement Results for the Ignitor Experiment	Bombarda F	288
R006	Transport Analysis of FTU Plasmas with High Power Density ECRH at 140 GHz	Buratti P	289
R007	Experimental Determination of the Dimensionless Parameter Scaling of Energy Transport in Tokamaks	Luce TC	290
R008	The Time Behaviour of the Electron Conductivity During L-H-L Transitions in JT-60U	Neudatchin S	291
R009	Confinement at Tight Aspect Ratio in START	Walsh M	292
R010	Transient Electron Heat Transport Experiments in the W7-AS Stellarator and the RTP Tokamak	Peters M	293
R011	Isotope Effect on Hard X-Ray Intensity Spectra	Rodriguez-Rodrigo L	294
R012	Advances in Theoretical Understanding of Disruptions and MHD in DT Plasmas	Fredrickson E	295
R013	Disruptions, Vertical Instabilities and Halo Currents in COMPASS-D	Morris AW	296
R014	Measurements of Profile Changes Prior and During Sawtooth Crashes on TEXTOR Tokamak	Fuchs G	297
R015	The Effect of a Sawtooth Crash on Fast Particle Behaviour	Jarvis ON	298
R016	Spatial Localization of Turbulence During the Sawteeth Crash	Gervais F	299
R017	Measurement of $m=1$ Magnetic Field Perturbations during Sawtooth Activity in the TEXTOR Tokamak	Koslowski H	300
R018	Runaway Electrons in the ASDEX Upgrade Tokamak - A Free Electron Maser	Kurzan B	301
R019	Tomography Research for Sawtooth Crash Mechanism and Influence of the Biased Electrode on Sawtooth Behaviour in HL-I Tokamak	Dong JF	302
R020	Locked MHD-Modes in T-10 Tokamak	Ivanov N	303
R021	Direct Measurement of TAE, EAE and Multiple Kinetic TAE in JET	Fasoli A	304
R022	Radiation in JET's Mark I Divertor	Reichle R	305
R023	Improved Plasma Purity in the JET Pumped Divertor	Stamp MF	306
R024	Modification of the ASDEX-Upgrade Divertor	Bosch HS	307

Paper No:	Title	Presenting Author	Page No:
R025	Effects of Field Reversal in ASDEX-Upgrade	Laux M	308
R026	Power Losses During Divertor Biasing and Detachment Experiments: Biasing Effects on Impurity Levels and Transport in TdeV	Stansfield BL	309
R027	Radiation Distributions in Detached Divertor Operation on DIII-D	Leonard AW	310
R028	Atomic Physics and Plasma-Wall Interaction Effects on Particle Screening and Radiative Behaviour of Ergodic Divertor Edge Plasmas in Tore Supra	de Michelis C,	311
R029	Edge Localised Modes in TCV	Weisen H	312
R030	Studies of X-Point Plasmas in the START Tokamak	Sykes A	313
R031	Impurity Ion Emission and Edge Transport during ELMy H-modes in the New JET Divertor Configuration	O'Mullane MG	314
R032	Comparison of Transition to ELM-Free H-Mode Regime on COMPASS-D and ASDEX Upgrade	Valovic M	315
R033	W7-AS with Modified Mirror Ratio at High I-Values	Rau F	316
R034	Drift Reversal in the WVII-X Advanced Stellarator	Cooper WA	317
R035	Correlation of the Low Energy CX-flux with the Modulated ECRH-power at W7-AS	Verbeek H	318
R036	Simulation and Analysis of Neutral Particle Spectra for W7-AS	Wolle BKR	319
R037	Correlation Between Helium Particle Transport and Electron Density Fluctuation Level in W7-AS	Hirsch M	320
R038	Transport Studies of Injected Impurities in the Stellarator Wendelstein 7-AS	Burhenn R	321
R039	Island Divertor Studies for the Stellarator Wendelstein 7-X	Kisslinger J	322
R040	Results from Thomson Scattering and Electrostatic Probe Measurements in the Extrap T1 Reversed-Field Pinch	Moller A	323
R041	Resistivity Profile Effects in Numerical Magnetohydrodynamic Simulations of the Reversed-Field Pinch	Satherblom H-E	324
R042	Magnetic Fluctuations in the Extrap T2 Thin Shell Reversed-Field Pinch	Hedin G	325
R043	First Results from Extrap T2 Reversed-Field Pinch	Brunsell P	326
R044	Effects of the Impurities on the Loop Voltage in RFX	Carraro L	327
R045	Electron Temperature and Density Profiles in RFX	Giudicotti L	328
R046	Influence of Parallel Dynamics on Tearing Mode Stability	Bondeson A	329
R047	Sawtooth Model for ITER	Porcelli F	330
R048	Redistribution of Fast Ions Caused by Sawtooth Crashes in Tokamaks	Yakovenko Y	331
R049	Scaling Laws for the Amplitude, Period, and Crash Time of Sawtooth Oscillations	Thyagaraja A	332
R050	Kinetic and Hydrodynamic Descriptions of Wave Scattering and Transformation in Plasmas	Sitenko A	333

Paper No:	Title	Presenting Author	Page No:	Paper No:	Title	Presenting Author	Page No:
R051	Hot Plasma Effects on the Collective Scattering of Electromagnetic Fluctuations	Heikkinen JA	334	R076	The SOL in Diverted Discharges in the Texas Experimental Tokamak (TEXT)	Rowan W	359
R052	Nonthermal Electron-Cyclotron Emission from Plasmas Satisfying a Generalized Kirchhoff's Law	Bornatici M	335	R077	Influence of L- and H-Mode and Rotational Transform on the Edge Density Profiles in W7-AS	Kocsis G	360
R053	Effect of Flow on the Plasma Equilibrium in Axisymmetric Toroidal Magnetic Traps	Cheremnykh O	336	R078	ELM Related MHD Activity on the Compass-D Tokamak Compared with ASDEX-Upgrade	Buttery RJ	361
R054	Trapped Particle Drifts in Advanced Tokamaks	Roach CM	337	R079	The Edge Plasma Modes as ELM Events	Pogutse O	362
R055	The Effect of Shearless Stellarator Rotational Transform on the Tokamak Plasma Stability	Subbotin A	338	R080	The Effects of ELMs on the Plasma Edge of JET	Lingertat J	363
R056	The Effect of the Confining Field Geometry on Lower Hybrid Resonant Layer	Rapozo C	339	R081	Instabilities of Debye Layers in Experiments on Imitation of SOL Plasma-Surface Interactions	Kurnaev V	364
R057	Joule Heating Owing to Plasma Density Inhomogeneity Along Current Layer	Zabajdullin OZ	340	R082	Effect of the Toroidal Field Reversal on Divertor Asymmetries	Chankin A	365
R058	Refined Numerical Modelling of Fusion Product Measurements	Beikert G	341	R083	Divertor Plasma Detachment in JET	Monk RD	366
R059	The Hall Effect in Plasmas: Enhanced Propagation Rate of the Magnetic Field and Short-Scale Plasma-Field Mixing in Plasma Focus Experiments	Kukushkin A	342	R084	The Location of the Separatrix in the JET Divertor and SOL	Erents K	367
R060	Effect of Deterministic Drifts on Collisional Particle Diffusion in Stochastic Magnetic Fields	Vlad M	343	R085	Investigation of Opacity in the Tokamak Divertor Region	Lovegrove T	368
R061	Plasma Edge Turbulence Numerical Study with a Vlasov Eulerian Code	Fijalkow E	344	R086	The Influence of Divertor Geometry on JET Discharges	Loarte A	369
R062	Non-Linear Heat Pinch in a Tokamak	Haines M	345	R087	Power Deposition Studies in the JET Mark I Pumped Divertor	Clement S	370
R063	Neoclassical Theory of Poloidal Flow Damping	Morris R	346	R088	Divertor Similarity and Multi-Machine Scaling Experiments	Vlases G	371
R064	Modelling of Radiative Emissions From Impurity Pellets	Castle G	347	R089	Power and Particle Flux to the Neutraliser Plates of the Tore Supra Ergodic Divertor	Grosman A	372
R065	Scale-Invariant Plasma Motions Near X-Points	Schep TJ	348	R090	Analysis of SOL and Divertor Behavior in DIII-D	Porter G	373
R066	Investigation of Low Radiation Collapses in Stellarator Plasmas	Ochando MA	349	R091	An Investigation of the Extent of Divertor Detachment in Alcator C-Mod	Lipschultz B	374
R067	Dimensional Analysis of L-H Power Threshold Scalings	Kerner W	350	R092	Electron Energy Distribution Function in Edge Plasma of TF-2 Tokamak	Bogomolow L	375
R068	Long Term Applications of High B Spherical Tokamaks	Hender TC	351	R093	Low Frequency Plasma Heating and Current Drive Regimes for Ignitor	Moroz PE	376
R069	Effect of Edge Localized Modes (ELMs) on Edge Electron Density and Temperature Profiles and Impurity Transport in ASDEX Upgrade	Suttrop W	352	R094	Toroidal Velocity, Electron and Ion Temperatures in Tore Supra with LHCD, ICRF, and Combined Additional Heating	Platz P	377
R070	Variation of Power Density Decay Lengths in the SOL of ASDEX Upgrade Measured by Thermography and Langmuir Probes	Herrmann A	353	R095	ICRF Preionization and Plasma Production in TEXTOR	Lysoivan A	378
R071	Scrape-Off Layer Plasma Pressure Balance in Asdex-Upgrade	Pitcher CS	354	R096	Auxiliary Heating Experiments with a Tungsten Test Limiter in TEXTOR	Van Oost G	379
R072	ELM-Resolved Neutral-Particle Fluxes and Ion Temperature at the Edge of ASDEX-Upgrade Discharges	Stober J	355	R097	The Nonlocal Drift-Kinetic Quasilinear Theory of Radiofrequency Heating in Magnetic Traps	Kasilov S	380
R073	Density Profiles in the ASDEX Upgrade Scrape-Off Layer	Schweitzer J	356	R098	Fast Fokker-Planck Solver with Spatial Diffusion of the Driven Currents	Shkarofsky IP	381
R074	The Behaviour of Divertor and Scrape-Off Layer Parameters in JET	Davies S	357	R099	Simulations of Filling the Spectral Gap with Lower Hybrid Waves	Pattikangas T	382
R075	Edge Pressure Gradients and Velocity Shear Behaviour During H-Modes and ELMs in the New JET Divertor Configuration	Hawkes N	358	R100	Modelling of LH Current Drive and Profile Control Experiments on JET	Fischer B	383
				R101	ICRF Heating and Current Drive Experiments in TFTR	Majeski R	384

Paper No:	Title	Presenting Author	Page No:
R102	First Results from LHCD in COMPASS-D	Warrick CD	385
R103	Alfvén and Fast Wave Current Drive in Weakly Collisional Plasma of Magnetic Traps	Elfimov AG	386
R104	Advanced Current Density Profiles for Non-Inductive Tore Supra Operation	Kazarian-Vibert F	387
R105	ITER Plasma Diagnostics	Costley A	388
R106	Multiple Neutron Spectrometer Diagnostic for ITER	Källne J	389
R107	Diamond Detector Application for ITER SXR-imaging	Krasilnikov A	390
R108	Diagnostic Detector for ITER Gamma Camera	Kiptily V	391
R109	Impurity Induced Neutralization of Alpha Particles and Application to ITER Diagnostics	Korotkov A	392
R110	Advances in Neural Network Applications for START, Compass-D and ITER	Windsor CG	393
R111	TPX Diagnostics for Tokamak Operation, Plasma Control and Machine Protection	Edmonds P	394
R112	Tomographic Reconstruction of the Radiation Distribution During Neon Puff Experiments in ASDEX Upgrade and JET	Fuchs JC	395
R113	Spatial Distribution of Electron Density Fluctuations Measured Using CO ₂ Laser Phase Contrast Method on Heliotron-E	Kado S	396
R114	HIBP Measurements of the Plasma Electric Potential on T-10	Melnikov A	397
R115	Spectroscopic Determination of Ion Temperatures in the Divertor of ASDEX Upgrade	Lieder G	398
R116	Multichannel YAG Thomson Scattering on CHS	Yamada I	399
R117	In Situ Measurement of Neutral Beam Divergence using Special Asymmetry in Motional Stark Effect in a Tokamak	Xu J	400
R118	First Results with the Elliptical Beam Polarimeter at RTP	Rommers JH	401
R119	Diagnosis of Nonthermal ECE by means of Combined LFS ECE, HFS ECE and ECA Measurements	van Gelder JFM	402
R120	On the Data Analysis of the Runaway Electrons Synchrotron Radiation	Pankratov IM	403
R121	Modulational Instability of Electromagnetic Waves in Highly Collisional Dusty Plasmas	Vladimirov S	404
R122	Modulational Instability of Packets of Lower-Hybrid Waves	Popel SI	405
R123	Combined Diagnostic Methods of non-LTE Dense Pulsed Plasma	Zhovtyansky V	406
R124	Non Linear Effect in the Coupling of Electrostatic Waves	Riccardi C	407

Thursday 6th July

Time	Title	Page
0830 - 1015 PLENARY SESSION		
Chairman: M Kaufmann		
0830	RL06 Hintz E Plasma Edge Diagnostics by Atomic Beam Supported Emission Spectroscopy: Status and Perspectives	411
0915	TL09 Esipchuk Yu V Investigation of ECCD on the First and Second Harmonics ECR	412
0945	TL10 Romanelli F Linear and Non-linear Evolution of Alpha-particle Driven Gap Modes	413
1015 COFFEE		
1045 - 1200 PLENARY SESSION		
Chairman: R O Dendy		
1045	TL11 Koch R Interaction of ICRF Waves with Fast Particles on TEXTOR	414
1115	RL07 Boozer A Quasi-helical Symmetry in Stellarators	415
1200 LUNCH		
1300 - 1800 POSTER SESSION S (121 Posters)		
1400 - 1600 ORAL SESSION		
Chairman: M Chatelier		
1400	Or19 Luce TC Experimental Determination of the Dimensionless Parameter Scaling of Energy Transport in Tokamaks	416
1420	Or20 Koslowski H Measurement of m=1 Magnetic Field Perturbations during Sawtooth Activity in the TEXTOR Tokamak	417
1440	Or21 Kurzan B Runaway Electrons in ASDEX Upgrade Tokamak - A Free Electron Maser	418
1500	Or22 Hender TC Long Term Applications of High β Spherical Tokamaks	419
1520	Or23 Kazarian-Vibert F Advanced Current Density Profiles for Non-Inductive TORE SUPRA Operation	420
1540	Or24 Post-deadline Oral	-
1600 TEA SERVED		
1700 - 1800 PLENARY SESSION		
Chairman: J Drake		
1700	TL12 Prager S Plasma Rotation, Confinement and Non-linear Dynamics in the RFP	421
1730	TL13 Zohm H MHD Stability and Disruption Physics in ASDEX-Upgrade	422
1800 END OF SESSION		

Poster Session S (121 Posters)

Paper No:	Title	Presenting Author	Page No:
S001	Experiments with TF Ripple in JET	Tubbing B	423
S002	Sawtooth Studies on the FTU Tokamak	Buratti P	424
S003	Disruption and VDE Characterization for ITER	Ortolani S	425
S004	X-Ray Spectrum Evolution in Startup Phase and During Major Disruption in the TVD Tokamak	Shurygin VA	426
S005	MHD-Activity Suppression with Pellet Injection into Plasma Periphery in T-10 Tokamak	Ivanov N	427
S006	Detailed Profile of m=2 Islands and Suppression of them with ECRH on JFT-2M Tokamak	Yamauchi T	428
S007	Possible Safe Termination by Injection of Polyethylene Pellets in JET	Schmidt GL	429
S008	Internal Modes in Ignition Experiments, Prototype Construction and Assessment of the Ignitor Experiment	Coppi B	430
S009	MHD-mode Stabilization by Plasma Rotation in TEXTOR	Vries PC	431
S010	MHD Analysis of High β_p H-Mode Induced by a Mini-Collapse	Takeji S	432
S011	Characteristics of Disruptions on ASDEX-Upgrade and their Physical Interpretation	Pautasso G	433
S012	Investigation of the Fishbone-Instability in ASDEX Upgrade	Kass T	434
S013	Experimental Investigations of the Current Termination Phenomenon in Tokamak Discharges	Jones I	435
S014	DIII-D Disruption Experiment Results	Taylor P	436
S015	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	437
S016	Experimental Studies of the T-10 Plasma Quench using a High-Z Impurity Pellet Injection	Sergeev V	438
S017	Influence of MHD Instabilities on JET High Performance	Smeulders P	439
S018	Effects of Magnetic Shear Reversal on the MHD Stability of High q Plasma Equilibrium	Edery D	440
S019	Plasma Scram for ITER L-Mode Ignited Plasmas	Johner J	441
S020	m=2, n=1 Magnetic Reconnection in Tore Supra	Turlur S	442
S021	Comparison of Experimental and Theoretical Growth Rates of the Vertical Instability in TCV	Dutch M	443
S022	MHD Operational Limits and Disruption Statistics in TCV	Pochelon A	444
S023	MHD Spectroscopy, First Application of a New Diagnostic Tool	Holties HA	445
S024	H-Mode and L-Mode Confinement in ASDEX Upgrade: Comparison Under Conditions with Low and High H-Mode Power Threshold	Ryter F	446
S025	Relativistic Runaway Electrons in TEXTOR and ITER	Jaspers R	447

Paper No:	Title	Presenting Author	Page No:
S026	BES Density Fluctuation Measurements on Text-U and Comparison with other Diagnostics	Karzhavin Y	448
S027	Investigation of Magnetic and Density Fluctuations in Tore Supra during Additional Heating	Devynck P	449
S028	The Influence of Variations in Transport Related Parameters (Plasma Current, Injected Power, and Species) on Plasma Turbulence in TFTR	Paul SF	450
S029	Reflectometer Measurements of Turbulent Density Fluctuations in Deuterium and Tritium Plasmas in TFTR	Mazzucato E	451
S030	Shear Reversal Experiments on JET	Soldner FX	452
S031	The Effect of Current Profile Control on the Beta-Limit in the Compass-D Tokamak	Gates DA	453
S032	Simulations of Current Drive and Current Profile Control in the Tokamak Physics Experiment (TPX)	Bonoli P	454
S033	Discharges with High Bootstrap Current Fraction on Tore Supra	Joffrin E	455
S034	Current Density Profile Measurement and Current Diffusion Experiments on TEXT-Upgrade	Brower D	456
S035	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	457
S036	Production and Stability of High-Beta DIII-D Discharges with Reversed Magnetic Shear	Mauel ME	458
S037	High Current Operation with the New JET Divertor	Sartori R	459
S038	L-H Mode Transition and the Transport in the Stellarator Diode	Lesnyakov GG	460
S039	Effect of Bootstrap Current on MHD Equilibrium in Heliotron/Torsatron	Watanabe K	461
S040	Status of CHS Experiments and Its Prospect	Matsuoka K	462
S041	H/(H+D) Ratios in ICRF Heating Experiments of CHS	Ozaki T	463
S042	Comparative Studies of Edge Turbulence in Stellarator Devices	Estrada T	464
S043	Turbulence Studies in W7-AS by AM and Carrier Phase Reflectometry	Branas B	465
S044	Investigation of Turbulence with Wavelet Bicoherence	van Milligen	466
S045	Dynamics of an Electron Beam and That of the Hard X-Ray Radiation Spectrum in the Plasma Focus Discharge	Filippov N	467
S046	Radial Distribution of Sloshing Ions in GDT	Mizuno N	468
S047	Fast Density Fluctuation Phenomena Related to Magnetic Locked Modes on RFX	Innocente P	469
S048	Analysis of Wall Locking Phenomena and Their Consequences in RFX	Antoni V	470
S049	Improved RFX Operation by Active Magnetic Field Control	Piovan R	471
S050	Superthermal Electron Generation and Transport in the Reversed-Field Pinch	Giruzzi G	472

Paper No:	Title	Presenting Author	Page No:	Paper No:	Title	Presenting Author	Page No:
S051	Comparison Studies of Different Axisymmetric MHD-Anchors in GDT Experiment	Ivanov A	473	S074	Wall Conditioning and Plasma Surface Interaction in the Extrap T2 Reversed Field Pinch	Larsson D	496
S052	Effect of Viscous Dissipation on the Generation of Shear Flow at a Plasma Edge in the Guiding Center Approximation	Manfredi G	474	S075	Modelling of Layer Deposition on Limiter Surfaces by Local Gas Injection in TEXTOR	Winter J	497
S053	Vlasov Gyrokinetic Simulations of Ion-Temperature-Gradient Driven Instabilities	Manfredi G	475	S076	B2-Eirene Modelling of the CDH Mode in ASDEX-Upgrade	Schneider R	498
S054	Geometrical Nature of Frozen-in Laws of Ideal Magnetohydrodynamics	Kuvshinov B N	476	S077	Numerical Modelling of Edge Plasma Parameters during Neon Injection in FTU and Comparison with Experimental Results	Franzoni G	499
S055	3-D Tokamak Edge Turbulence	Zeiler A	477	S078	2D-Model Calculations of Carbon Density and Radiation Profiles within the Minor Cross-Section of TEXTOR	Claassen HA	500
S056	Ship Waves in Rotating Plasma in Tokamaks	Pavlenko VP	478	S079	Multifluid Modelling of Radiative and Detached Edge Plasmas and Comparison with JET Experimental Results	Taroni A	501
S057	Effects of Resonant Magnetic Perturbations on Divertor Target Loads in COMPASS-D	Buttery RJ	479	S080	Modelling of Neutrals Collection by Vented Limiters	Pegourie B	502
S058	Drift Waves with Parallel Flow Revisited	Sen S	480	S081	TPX Divertor Modelling Studies	Rensink M	503
S059	Instabilities of Electrostatic Modes and Associated Nonthermal Transports and Coherent Structures in Impurity Containing Inhomogeneous Plasmas	Shukla PK	481	S082	Modelling of Helium Exhaust in COMPASS-D	Maddison G	504
S060	Turbulent Electrostatic Fluctuations with the Dimensions Related with the Debye Radius and Fluctuational Electric Fields in a Tokamak	Gott Yu V	482	S083	Topological Aspects of Island Divertor Studies on W7-AS	Das J	505
S061	Stability Condition for Collisionless and Collisional MHD Modes in the Gyrokinetic Description	Zheng L	483	S084	Divertor Detachment, Radiation Capability and the Density Limit	Igitkhanov Yu	506
S062	Anomalous Plasma Transport in a Stochastic Magnetic Field Structure	Kubota T	484	S085	Consistent Core-Edge Plasma Modelling for TEXTOR Plasmas with Low Z Impurities	Baelmans M	507
S063	Linear Electrostatic Drift-Kinetic PIC Code for n-i Modes in Toroidal Geometry	Fivaz M	485	S086	Edge Transport and Modelling in W7-AS	Sardei F	508
S064	Nonlinear Development of a Plasma Turbulence in the Presence of the Self-induced Current Diffusion	Itoh S	486	S087	Optimisation of the Divertor Geometry for ITER	Kukushkin A	509
S065	Spectra and Mode Structures of Global Drift Waves in Toroidal Geometry	Brunner S	487	S088	Effect of Slow High-Power Transients on ITER Divertor Plates and Limiter Components	Pacher HD	510
S066	Spectral Properties of Toroidal ni Mode Turbulence in Tokamaks	Pakyari A	488	S089	Observation and Interpretation of Thermal Instabilities at the Front Face of an Actively Cooled Limiter in Tore-Supra	Guilhem D	511
S067	Self Consistent Study of Electron Energy Transport by Magnetic Turbulence	Sabot R	489	S090	Poloidally Asymmetric Emission of Visible Light in RTP	Ingesson LC	512
S068	Correlation Lengths of Electrostatic Turbulence	Guiziou L	490	S091	Analysis of the Magnetic Field Structure Generated by Resonant Three Phase Conductor Configurations in TEXTOR	Nicolai A	513
S069	Anomalous Electron Flow and Ambipolar Electric Field in Non-Maxwellian Plasmas	Voitsekhovitch IA	491	S092	A Quantitative Study of the Carbon Impurity Production Mechanisms from an Inertial Limiter in Tore Supra as Determined by Visible Spectroscopy	Tobin S	514
S070	Particle Orbits in a Stochastic Magnetic Field	de Rover M	492	S093	Evaluation of Wall Particle Content to Optimize the Operation of Tore Supra	Grisolia C	515
S071	Combined Analysis of Steady State and Transient Transport by the Maximum Entropy Method	Giannone L	493	S094	Mode-Converted Ion-Bernstein Waves in Tokamaks	Ram A	516
S072	Modification of Runaway Dynamics by Magnetic Turbulence	Castejon F	494	S095	Alfven Wave Heating of Plasma in Additional Alfven Resonances in Stellarators	Stepanov K	517
S073	Kinetic Description of Electromagnetic Fluctuations in Plasmas with Large-Scale Random Motions	Zagorodny AG	495	S096	Electron Heating by the Fast Wave and a Mode Converted Ion Hybrid (Bernstein)Wave in a Deuterium-Tritium Plasma	Lashmore-Davies CN	518
				S097	Neutral Beam Heating and Current Drive in Tight Aspect Ratio Tokamaks	Counsell G	519
				S098	Wave Propagation and Absorption During ECRH at the Fundamental Resonance of 140 GHz on the FTU Tokamak	Nowak S	520

Paper No:	Title	Presenting Author	Page No:
S099	Fast Wave Driven Alpha Current and Its Implication to Current Profile Control by FWCD in a Tokamak Reactor	Chang CS	521
S100	Experiments with "Quasi-Optical Grill" on Tokamak CASTOR	Zacek F	522
S101	Enhancement of Current Drive Efficiency by Simultaneous Excitation of Stimulated Raman Backward and Forward Scattered Waves	Demchenko V	523
S102	Alfven Wave Current Drive and Heating in the Phaedrus-T Tokamak	Hershkowitz N	524
S103	Parametric Mechanism of the Current Drive Switch-Off in the FT-2 Tokamak	Lashkul S	525
S104	Non-WKB Terms and Ray-Tracing in the Lower-Hybrid Range in a Tokamak	Gusakov E	526
S105	Study of Multipass Regimes in Lower Hybrid Current Drive Experiments on TORÉ SUPRA	Arslanvekov R	527
S106	RF Waves Coupling and Impurity Generation in Tore Supra	Goniche M	528
S107	Developing 2D Full-Wave Ordinary Mode Simulation Code for Real T-10 Geometry	Tsaun SV	529
S108	Advanced Signal Processing Techniques Used for Information Extraction From Single and Multiple-Point Reflectometry at JET	Bak P	530
S109	Two-dimensional Effects of Radial and Poloidal Fluctuations in Ordinary Mode Reflectometry	Fanack C	531
S110	Continuous Phase Derivative Evaluation for Density Profile Measurements from FM Broadband Reflectometry	Silva A	532
S111	Initialisation of Density Profiles from Reflectometry Data	Varela P	533
S112	First Density Profile Measurements by Multifrequency Pulse Reflectometry in START	Shevchenko V	534
S113	New Microwave Measurements of Electron Density and Temperature in the JET Divertor	Prentice R	535
S114	Toroidal Correlation Reflectometry for q-Profile Estimation in TJ-I Tokamak	Estrada T	536
S115	Two-dimensional Effects of Turbulence in Density Profile Measurements by Reflectometry	Zhuravlev V	537
S116	Double Filter Electron Temperature Measurements with High Time Resolution in RFX	Martin P	538
S117	Measuring the Line-Averaged Density by the Time Delay of Short Microwave Pulses	Heijnen SH	539
S118	Weak Turbulence Theory and Modulational Processes	Popel SI	540
S119	Poloidal Spin-Up and Electric Field Generation Related to Displacement Current and Transport	Minardi E	541
S120	Relaxation of a Bounded Plasma with Dust Particles	Schram PJJM	542
S121	Forced Reconnection in a Plasma Slab	Rem J	543

Friday 7th July

Time	Title	Page
0900 - 1015 PLENARY SESSION		
Chairman: O Grüber		
0900	RL08 Connor J Transport in Tokamaks: Theoretical Models and Comparison with Experimental Results	547
0945	TL14 Pamela J Neutral Beam Injection based on Negative Ions	548
1015 COFFEE		
1045 - 1300 PLENARY SESSION		
Chairman: A Gibson		
1045	TL15 Wesson J Snakes	549
0115	TL16 Gusakov EZ Investigation of Small-scale Plasma Fluctuations by Radar Backscattering	550
1145	TL17 Jones TTC The Route to High Performance on JET	551
1215	RL09 Schüller C Review on Disruptions	552
1300 END OF SESSION AND CLOSING CEREMONY		
1315 LUNCH		
1400 - 1500 BUSES TO HEATHROW AIRPORT		