

20th IAEA Fusion Energy Conference 2004

1st-6th November 2004

Villamoura, Portugal



The 20th International Atomic Energy Agency (IAEA) Fusion Energy Conference (FEC) was held in Vilamoura, Portugal, from 1 to 6 November 2004. The Instituto Superior Técnico through the Centro de Fusão Nuclear on behalf of the Portuguese Government and the Association EURATOM/IST hosted the conference. The IAEA wishes to express its gratitude to the host.

More than 600 delegates representing 33 countries and three international organizations attended the Fusion Energy Conference 2004. The Programme Committee accepted a total of some 437 papers for presentation at the conference.

The conference was opened by welcome speeches from Prof. W. Burkart (IAEA), Prof. C. Varandas (CFN) and Eng. P. Sampaio Nunes (Portuguese, Secretary of State of Science and Innovation), followed by 3 contributions to the traditional "Fusion Pioneers Memorial Session" presented by Prof. C.M. Ferreira (Portugal), Prof. Sir C. Llewellyn-Smith (UKAEA) and Prof. Y. Shimomura (ITER).

The scientific experimental and theoretical papers have been grouped with respect to the following themes: Overview on magnetic and inertial fusion; Advanced Scenarios and Steady State; Edge Localized Modes; Fusion Technology; Transport Theory; Beta Limits; Hybrid Scenarios; H-mode and Transport; ITER; Alfvén Modes and Wave Heating; Operational Limits and Momentum Transport; Energetic Particles and Stability; Neoclassical Tearing Modes; Transport and Turbulence; Inertial Fusion; Configuration Effects and Transport; and Plasma-wall Interaction.

The conference adjourned with the announcement of the next IAEA Fusion Energy Conference, which will be held for the first time in the People's Republic of China, in the city of Chengdu, October 16-22, 2006. Information will be available through this [link](#).

[Editorial Note](#)

IAEA-CSP-25/CD

ISBN: 92-0-100405-2

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PAPER	AUTHOR	TITLE
EX/1-1	Tuccillo, A. A.	Development on JET of Advanced Tokamak operation...
EX/1-2	Murakami, M.	100 Percent Noninductive Operation at High Beta ...
EX/1-3	Suzuki, T.	Steady State High betaN Discharges and Real-Time...
EX/1-4	Suttrop, W.A.	Studies of the Quiescent H-mode regime in ASDEX ...
EX/1-5	Harris, J. H.	Confinement Study of Net-Current Free Toroidal P...
EX/10-1	Philipps, V.	Overview of recent work on material erosion, mig...
EX/10-2	Tsitrone, E	Deuterium retention in Tore Supra long discharges
EX/10-3	Nakano, T	Impact of nearly-saturated divertor plates on pa...
EX/10-4	Komori, A	Edge Plasma Control by Local Island Divertor in ...
EX/10-5	Neu, R.L.	Tungsten: An option for divertor and main chambe...
EX/10-6Ra	Hollmann, E.M.	Disruption Thermal Quench Mitigation by Noble Ga...
EX/10-6Rb	Bakhtiari, Mohammad	Disruption Mitigation Experiments in the JT-60U ...
EX/10-6Rc	Martin, G	Disruption Mitigation on Tore Supra
EX/2-1	Oyama, N	Energy loss for grassy ELMs and effect of plasma...
EX/2-2	Maingi, R	H-mode pedestal, ELM, and power threshold studie...
EX/2-3	Kirk, A	The structure of ELMs and the distribution of tr...
EX/2-4Ra	Fundamenski, W	Power Exhaust on JET: an Overview of Dedicated E...
EX/2-4Rb	Herrmann, A	Wall and divertor heat load during ELMy H-mode ...
EX/2-5Ra	Evans, T.E.	Suppression of Large Edge Localized Modes With a...
EX/2-5Rb	Fenstermacher, M.E.	Structure, Stability and ELM Dynamics of the H-m...
EX/2-6	Lang, P.T.	Integrated exhaust scenarios with actively contr...
EX/3-1Ra	Okabayashi, M.	Control of the Resistive Wall Mode With Internal...
EX/3-1Rb	Reimerdes, H.	Active Measurement of Resistive Wall Mode Stabil...
EX/3-2	Sabbagh, S.A.	Wall Stabilized Operation in High Beta NSTX Plas...
EX/3-3	Watanabe, K.Y.	Effects of global MHD instability on operational...
EX/3-4	Zarnstorff, M.C.	Equilibrium and Stability of High-Beta Plasmas i...
EX/4-1	Wade, M.R.	Development, Physics Basis, and Performance Proj...
EX/4-2	Joffrin, E. H.	The "hybrid" scenario in JET: towards its valida...
EX/4-3	Sakamoto, Y	Stationary high confinement plasmas with large b...
EX/4-4	Akers, R.J	Comparison of plasma performance and transport b...
EX/4-5	Staebler, A.	The Improved H-Mode at ASDEX Upgrade: a Candidat...
EX/4-6Ra	Kamiya, k	Studies of HRS H-mode plasma in the JFT-2M tokamak
EX/4-6Rb	Ido, T	Electrostatic fluctuation and fluctuation-induce...
EX/5-1	Nazikian, R.	Energetic Particle Driven Modes in Advanced Toka...
EX/5-2Ra	Sharapov, S. E.	Experimental studies of instabilities and confin...
EX/5-2Rb	Ishikawa, M	Energetic Ion Transport by Alfvén Eigenmode Indu...
EX/5-3	Fredrickson, E.D	Study of aspect ratio effects on MHD instabilities
EX/5-4Rb	Yamamoto, S	Configuration Dependence of Energetic Ion Driven...
EX/5-5	Pericoli Ridolfini, V	LHCD and Coupling Experiments with an ITER-like ...
EX/5-6	Gusev, V.K.	ICRH experiments on the spherical tokamak Globus-M
EX/6-1	Takenaga, H	Compatibility of advanced tokamak plasma with hi...

EX/6-2	Peterson, B. J.	Density Limit Studies in the Large Helical Device
EX/6-3	Sartori, R	Scaling Study of ELMy H-Mode Global and Pedestal...
EX/6-4Ra	Rice, J.E	The Role of Rotation in the H-mode Transition in...
EX/6-4Rb	Degrassie, J.S.	Plasma Rotation in Electron Cyclotron Heated H-m...
EX/6-5	Wolf, R. C.	Effect of the Dynamic Ergodic Divertor in the TE...
EX/6-6	McDonald, D. C,	Particle and Energy Transport in Dedicated rho*,...
EX/7-1	Buttery, R. J.	Cross-machine NTM physics studies and implicatio...
EX/7-2	Maraschek, M	Active Control of MHD Instabilities by ECCD in A...
EX/7-3	Petty, C.C.	Onset and Suppression of 2/1 NTM in DIII-D
EX/7-4	Nagasaki, Kazunobu	Stabilization of Neoclassical Tearing Mode by EL...
EX/8-1	Castejón, F.	On the influence of the magnetic topology on tra...
EX/8-2	Hoang, G.T.	Turbulent Particle Transport in Tore Supra
EX/8-3	Gerhardt, S.P.	Measurement and Modeling of Electrode Biased Dis...
EX/8-4Ra	Antoni, V.	Turbulent transport and plasma flow in the Rever...
EX/8-4Rb	Xu, G.S.	Generation of Sheared Poloidal Flows by Electros...
EX/8-5Ra	Okamura, S.	Edge and Internal Transport Barrier Formations i...
EX/8-5Rb	Fujisawa, A.	Experimental Studies of Zonal Flows in CHS and J...
EX/9-1	Pochelon, A.	Effect of Plasma Shape on Electron Heat Transpor...
EX/9-2	Sano, Fumimichi	Confinement Studies of Helical-axis Heliotron Pl...
EX/9-3	Kitajima, S.	LH Transition by a Biased Hot Cathode in the Toh...
EX/9-4	Silva, C. G.	Limiter and Emissive Electrode Biasing Experimen...
EX/9-5	Wood, R.D.	Improved Operation and Modeling of the SSPX Sphe...
EX/9-6Ra	Kwon, Myeon	Progress in the Study of Plasma Heating, Stabili...
EX/9-6Rb	Jhang, H. G.	Influence of radio frequency waves on the interc...
EX/9-6Rc	Koidan, V.S.	Heating and Confinement of Ions at Multimirror T...
EX/9-6Rd	Cho, T	Advances in Potential Formation and Findings in ...
EX/P1-2	Monier-Garbet, P	Impurity-seeded ELMy H-modes in JET, with high d...
EX/P1-3	Solano, E R	ELMs, strike point jumps and SOL currents
EX/P1-4	Stober, J	Small ELM regimes with good confinement on JET a...
EX/P2-1	Crisanti, F.	JET RF dominated scenarios and Ion ITB experimen...
EX/P2-11	Field, A.R	Core Heat Transport in the MAST Spherical Tokamak
EX/P2-12	Inagaki, S	Comparison of Transient Electron Heat Transport ...
Missing	Lebedev, S.V.	Neutral Beam Injection Heating in the TUMAN-3M
EX/P2-15	Nagata, M	Investigation of the Dynamics of Accelerated Com...
EX/P2-16	Nascimento, I.C.	INFLUENCE OF ELECTRODE BIASING ON PLASMA PARAMET...
EX/P2-17	Sakakita, H.	Characteristics of the TPE Reversed-Field Pinch ...
EX/P2-20	Drake, J.R	Experimental and theoretical studies of active c...
EX/P2-21	Ferron, J.R.	Optimizing the Beta Limit in DIII-D Advanced Tok...
EX/P2-22	Hender, T.C	Resistive Wall Mode Studies in JET
EX/P2-26	Menard, J.E.	The role of flow and q profile in internal kink ...
EX/P2-27	Plyusnin, V. V.	Study of runaway electron generation process dur...
EX/P2-28	Savrukhin, P.V.	Nonthermal electrons and small-scale plasma pert...
EX/P2-32	Takechi, Manabu	MHD instabilities leading to disruption in JT-60...
EX/P2-33	Tsuzuki, K.	Compatibility of Reduced Activation Ferritic Ste...

EX/P2-5	Moreau, D.	Development of Integrated Real-Time Control of I...
EX/P2-7	Politzer, P.A.	Stationary, High Bootstrap Fraction Plasmas in D...
EX/P2-8	Stutman, D.	Improved electron confinement in negative magnet...
EX/P3-10	Peeters, A.G.	Understanding of the density profile shape, elec...
EX/P3-11	Rimini, F.G.	Development of Internal Transport Barrier scenar...
EX/P3-12	Shimozuma, T	Transition Phenomena and Thermal Transport Prope...
EX/P3-14	West, W.P.	Edge Stability and Performance of the ELM-Free Q...
EX/P3-2	Gong, X	Plasma Performance Improvement with Neon Gas Puf...
EX/P3-3	Henderson, M.A.	Rapid eITB formation during magnetic shear rever...
EX/P3-4	Horton, L.D.	Characterisation of the H-mode Edge Barrier at A...
EX/P3-8	Meyer, H	H-mode transition physics close to DN on MAST an...
EX/P4-1	Atrey, P.K.	Experiments on tokamak ADITYA
EX/P4-10	Solomon, W.M.	Experimental Test of Neoclassical Theory of Polo...
EX/P4-11	Takeiri, Y.	High-ion temperature experiments with negative-i...
EX/P4-12	Terry, J.L.	TRANSPORT PHENOMENA IN THE EDGE OF ALCATOR C-MOD...
EX/P4-13	Valisa, M.	The Greenwald density limit in the Reverse Field...
EX/P4-14	Van Houtte, D	1 GJ long pulse control on Tore Supra
EX/P4-15	Xie, J.K.	Investigation of plasma performance in high li s...
EX/P4-17	Alberti, S.	Third-harmonic, top-launch, ECRH experiments on ...
EX/P4-19	Ding, B. J.	Experimental study of a lower hybrid wave multi...
EX/P4-21	Gao, Qingdi	Modelling of Profile Control with LH Wave Inject...
EX/P4-22	Giruzzi, G.	Synergy between Electron Cyclotron and Lower Hyb...
EX/P4-23	Gusakov, E.Z.	Upper Hybrid Resonance backscattering Enhanced D...
EX/P4-24	Gusev, V.K.	Plasma Heating and Fuelling in the Globus-M Spe...
EX/P4-25	Hanada, K.	Transport barrier formation and its maintenance ...
EX/P4-26	Lamalle, P. U.	Expanding the operating space of ICRF on JET wit...
EX/P4-27	Maekawa, T	Formation of Spherical Tokamak Equilibria by ECH...
EX/P4-28	Mailloux, J	ITER Relevant Coupling of Lower Hybrid Waves in ...
Missing	Maltsev, S.G.	ICR Heating at the Fundamental Frequency of T-11...
EX/P4-3	Fujita, T	Stiffness of Central Current and Temperature Pro...
EX/P4-32	Porkolab, M.	Mode Conversion, Current Drive and Flow Drive wi...
EX/P4-34	Takase, Y.	Development of a Completely CS-less Tokamak Oper...
EX/P4-36	Zhang, X.D.	Experiments of full non-inductive current drive ...
EX/P4-37	Borba, D	Destabilisation of TAE modes using ICRH in ASDEX...
EX/P4-4	Giovannozzi, E.	Pellet Ablation in FTU discharges
EX/P4-41	Kobayashi, S.	Studies of high energy ions in Heliotron J
EX/P4-44	Osakabe, M.	Classical and non-classical confinement properti...
EX/P4-45	Testa, DS	Experimental Studies of Alfvén Mode Stability in...
EX/P4-47	Watanabe, T	Magnetic Field Structure and Confinement of Ener...
EX/P4-5	Gonçalves, B.	On the momentum re-distribution via turbulence i...
EX/P4-6	Ida, K	Control of the radial electric field shear by mo...
Missing	Melnikov, A.V.	Investigation of the Specific Plasma Potential O...
EX/P5-1	Buratti, P	Observation of high-frequency secondary modes du...
EX/P5-11	Lazarus, E.A.	Sawtooth Physics and Plasma Shapes

EX/P5-12	Liu, Yi	Snake Perturbations during Pellet injection and ...
EX/P5-13	Mauel, M. E.	Dynamics and Control of Resistive Wall Modes wit...
EX/P5-14	Nagayaam, Y	Experiment of Magnetic Island Formation in LHD
EX/P5-15	Oikawa, T	Observation of Current Profile Evolution Associa...
EX/P5-16	Westerhof, E.	Observation and manipulation of mesoscale struct...
EX/P5-19	Groth, M.	Implications of Wall Recycling and Carbon Source...
EX/P5-20	Kirnev, G.S.	Comparison of Plasma Turbulence in the Low- and ...
EX/P5-21	Kolbasov, B.N.	Structure, phase analysis and component compositi...
EX/P5-22	Loarer, Th	Overview of gas balance in plasma fusion devices
EX/P5-23	Majeski, R.	LIQUID LITHIUM LIMITER EXPERIMENTS IN CDX-U
EX/P5-24	Mayer, M.	Carbon deposition and deuterium inventory in ASD...
EX/P5-25	Mirnov, S.V.	Experiments with Lithium Limiter on T-11M Tokamak
EX/P5-27	Petrie, T.W.	Variation in Particle Control With Changes in Di...
EX/P5-29	Rudakov, D.L.	Far SOL Transport and Main Wall Plasma Interacti...
EX/P5-3	Craig, D.	New observations concerning the origin and conse...
EX/P5-30	Sakamoto, M.	Toroidal Structure of Hydrogen Recycling in ultr...
EX/P5-32	Tanabe, T	Retention of hydrogen isotopes (H, D, T) and car...
EX/P5-33	Unterberg, B.	IMPACT OF THE DYNAMIC ERGODIC DIVERTOR ON THE PL...
EX/P5-34	Yoshida, N.	Microscopic Modification of Wall Surface by Glow...
Missing	Yuan, Baoshan	Plasma Boundary Determination on HL-2A
EX/P5-4	Ding, W.X.	Two-Fluid Hall Effect on Plasma Relaxation in a ...
Missing	Hui, A.Kumar	Correlation of Electron Super-thermal Activities...
EX/P5-6	Hutchinson, I.H.	Asymmetric-Field Mode Locking in Alcator C-Mod
EX/P5-7	Kawamori, E	Ion Kinetic Effect on Bifurcated Relaxation to a...
EX/P5-8	Khorshid, Pejman	Effect of Viscosity on Magnetohydrodynamics Beha...
Missing	Kirnev, G.S.	Experimental Investigations of Plasma Periphery ...
EX/P6-12	Cirant, S.	Shear modulation experiments with ECCD on TCV
EX/P6-13	Deboo, J.C.	Search for a Critical T _e Gradient in DIII-D L-M...
EX/P6-14	Dux, R.	Impurity Transport and Control in ASDEX Upgrade
EX/P6-16	Imbeaux, F	Non linear electron temperature oscillations on ...
EX/P6-17	Jacchia, A	Electron Heat Transport Studies Using Transient ...
EX/P6-18	Mantica, P.	Progress in understanding heat transport at JET
EX/P6-19	Mirnov, S.V.	Study of an Anomalous Pinch Effect in the T-11M ...
EX/P6-20	Nunes, I	Density Profile Evolution During Dynamic Process...
EX/P6-21	Pedrosa, M.A.	Radial electric fields and improved confinement ...
EX/P6-22	Por, G	Amplitude correlation analysis of W7-AS Mirnov-c...
EX/P6-23	Rhodes, T.L.	Comparison of Broad Spectrum Turbulence Measurem...
EX/P6-24	Romanelli, M	studies of confinement and turbulence in FTU hig...
EX/P6-25	Sabot, R.	Measurements of density profile and density fluc...
EX/P6-26	Shelukhin, D. A.	Turbulence suppression in discharges with off-ax...
EX/P6-27	Skvortsova, N.N.	Low-Frequency Structural Plasma Turbulence in th...
EX/P6-28	Tanaka, K.	Experimental study of particle transport and den...
EX/P6-29	Taylor, R.J.	Observation of neoclassical ion pinch in the Ele...
EX/P6-30	Valovic, M	Energy and Particle Confinement in MAST

EX/P6-31	Weisen, J.H.	Anomalous particle and impurity transport in JET
EX/P6-32	Zurro, B.	Impurity transport and confinement in the TJ-II ...
FT/1-1Ra	Litvak, A.G.	New Results in Development of MW Output Power Gy...
FT/1-1Rb	Kasugai, A	Performance of 170 GHz high-power gyrotron for C...
FT/1-1Rc	Piosczyk, Bernhard	Development of Steady-State 2-MW 170-GHz Gyrotro...
FT/1-2Ra	Inoue, T.	R&D on a High Energy Accelerator and a Large Neg...
FT/1-2Rb	Tsumori, K	Improvement of Negative Ion Source with Multi-Sl...
FT/1-2Rc	Falter, H. D.	STATUS AND PLANS FOR THE DEVELOPMENT OF AN RF NE...
FT/1-3	Goulding, R. H.	Results and Implications of the JET ITER-Like I...
FT/1-4	Jitsukawa, SJ	Progress of Reduced Activation Ferritic/Martensi...
FT/1-5	Spatig, P.	Assessment of plastic flow and fracture properti...
FT/2-1Ra	Kilkenny, J.D.	From One-of-a-kind to 500,000 High Quality Ignit...
FT/2-1Rb	Norimatsu, T	Development of Key Technologies in DPSSL System...
FT/3-1Ra	Wilson, H.R	The Spherical Tokamak as a Components Test Facil...
FT/3-1Rb	Peng, Y.-K.M.	Physics and Engineering Assessments of Spherical...
FT/3-2	Oh, Y.K.	Result of the KSTAR Superconducting Coil Tests
FT/3-3	Wan, Y.X.	Progress of the EAST project in China
FT/3-4Ra	Saxena, Y. C.	First experiments with SST-1 Tokamak
FT/3-4Rb	Pradhan, S.	Superconducting Magnets of SST-1 Tokamak
FT/3-5	Wagner, F.	Physics, technologies and status of the Wendelst...
FT/3-6	Sagara, A	Improved Structure and Long-life Blanket Concept...
Missing	Kizane, G.	Operation problems of the blanket zone materials...
FT/P1-11	Nagasaka, Takuya	Development of fabrication technology for low ac...
FT/P1-12	Pinaev, S.S.	Basic Principles of Lead and Lead-Bismuth Eutect...
FT/P1-13	Sato, S.	Experimental Studies on Tungsten-armor Impact on...
Missing	Gomes, R. B.	Testing on ISTTOK of the liquid metal limiter co...
FT/P1-16	Hirooka, Y	Steady state hydrogen plasma interactions with s...
FT/P1-17	Ohno, N	Blister and Bubble Formation Mechanism on Tungst...
Missing	Constantinescu, B.	STUDIES ON HIGH ENERGY PROTON DEGRADATION IN OPT...
FT/P1-19	Hino, T	In-verse Tritium Inventory in ITER Evaluated by D...
FT/P1-20	Hirai, T.	Dynamic erosion of plasma facing materials under...
FT/P1-21	Moeslang, A.	Towards a Reduced Activation Structural Material...
FT/P1-22	Nishitani, T.	Integral Benchmark Experiments of the Japanese E...
FT/P1-23	Schlosser, J.	Technologies for the ITER divertor vertical targ...
FT/P1-24	Shikama, T.T.	Development of optical diagnostic system for bur...
FT/P1-25	Slugen, V.	Investigation of radiation damage in copper usin...
FT/P1-26	Voronin, Alexander	Plasma jet source parameters optimisation and ex...
FT/P1-27	Xu, Zengyu	Recent Results in Plasma Facing Materials Studie...
FT/P1-28	Fietz, W.H.	Use of High Temperature Superconductors for Futu...
FT/P1-29	Tomastik, C.	Oxidation of Beryllium - a Scanning Auger Invest...
FT/P1-30	Coppi, B.	Advances in the Ignitor Program
FT/P1-6	Kizu, K	Development of advanced superconducting coil tec...
FT/P1-7	Koizumi, N	Development of advanced Nb3Al superconductors fo...

FT/P1-8	Jordanova, J.D.	Evaluation of Tritium Breeding and Irradiation D...
FT/P1-9	Suzuki, S. S	Key achievements in elementary R&Ds on water-coo...
FT/P5-36	Slugen, V.	Grain boundary sliding and migration in copper: ...
FT/P6-38	Xiao, C.	Vertical CT Injection into the STOR-M Tokamak
FT/P7-1	Feng, K.M.	Fusion/Transmutation Reactor Studies Based on th...
FT/P7-10	Humphreys, D.A.	Integrated Plasma Control for High-Performance T...
FT/P7-11	Hermesmeyer, S	Development and reactor integration of Helium co...
FT/P7-12	Ionescu-Bujor, M.	Helium Loop Karlsruhe (HELOKA) - large experimen...
FT/P7-13	Norajitra, P	The European Development of Helium-cooled Divert...
FT/P7-14	Choi, C.H.	Fabrication of the KSTAR Toroidal Field Coil Str...
FT/P7-15	Hong, B.G.	Recent Advances in the Long Pulse Heating and Cu...
FT/P7-16	Kim, K	Status of the KSTAR Superconducting Magnet Syste...
FT/P7-17	Yang, H.L.	Progress in the Assembly of the KSTAT Tokamak
FT/P7-18	Lamalle, P. U.	Recent developments in ICRF antenna modelling
FT/P7-19	Ohkubo, K	Research and Development of Steady-State EC/ICRF...
FT/P7-2	Azizov, E.A.	Stationary Compact VNS Tokamak for Transmutation
FT/P7-21	Goedheer, W.J.	Magnum-psi, a plasma generator for plasma-surfac...
FT/P7-22	Heitzenroeder, P.J.	Component Manufacturing Development for the Nati...
FT/P7-23	Meade, D. M.	High-Beta Steady-State Advanced Tokamak Regimes ...
FT/P7-24	Heinzel, V.	The IFMIF Test Cell – Design and Neutronics Over...
FT/P7-25	Fischer, U.	Advanced Computational Tools and Methods for Nuc...
FT/P7-3	Ivanov, A.A.	Status of a Mirror Type 14 MeV Neutron Source P...
FT/P7-35	Nishio, S	Technological and Environmental Prospects of Low...
FT/P7-4	Asaoka, Y.	Conceptual design of a demonstration reactor for...
Missing	Medin, S.	Energy Conversion in Reactor Chamber for Fast Ig...
FT/P7-7	Kurita, G	Critical beta analyses with ferromagnetic and pl...
FT/P7-8	Tamai, H	Design study of National Centralized Tokamak fac...
FT/P7-9	Gnesotto, F	RFX: new tools for real-time MHD control
IC/P6-16	Yoshida, Z	Potential control and flow generation in a toroi...
IC/P6-33	Bellan, P. M.	Identification of the sequence of steps intrinsi...
IC/P6-34	Belova, E. V.	Numerical Study of the Formation, Ion Spin-up an...
IC/P6-35	Choe, W.	Solenoid-Free Toroidal Plasma Start-Up Concept U...
IC/P6-36	Del Bosco, E.	Present status of operation of the ETE spherical...
IC/P6-37	Ellis, R. F.	Steady Supersonic Rotation in the Maryland Centr...
IC/P6-40	Grekov, D.L.	High frequency way of helium ash removal from st...
IC/P6-41	Hoffman, A. L.	Long Pulse FRC Sustainment with Enhanced Edge Dr...
IC/P6-42	Jarboe, T. R.	Recent Results from the HIT-II and HIT-SI Helici...
IC/P6-43	Kotschenreuther, M. T.	Scrape Off Layer Physics for Burning Plasmas and...
IC/P6-44	Ono, Y	Direct Access to Burning Spherical Tokamak Exper...
IC/P6-45	Pomphrey, N	Plasma Control for NCSX and Development of Equil...
IC/P6-46	Reiman, A.	Interaction of Ambipolar Plasma Flow with Magnet...
IC/P6-47	Shumlak, U.	Evolution of Plasma Flow Shear and Stability in ...
IC/P6-48	Siemon, R.E.	Liner compression of a self-organized MAGO / inv...
IC/P6-49	Sinman, sadrettin	Experimental Study on a New Spherical Tokamak C...

IC/P6-50	Soto, L.	Research on the Enhancement of the Thermonuclear...
IC/P6-51	Spong, D. A.	Recent Advances in Quasi-Poloidal Stellarator Ph...
IC/P6-53	Wurden, G. A.	FRC plasma studies on the FRX-L plasma injector ...
IC/P6-54	Yoshikawa, K	Research and Development of a Compact Fusion Neu...
IC/P6-6	Okada, Shigefumi	Sustainment and Additional Heating of High-Beta ...
IF/1-1Ra	Azechi, H	Hydrodynamic Stability Experiments on the GEKKO-...
IF/1-1Rb	Li, D	Effects of Magnetic Field, Shear Flow and Ablati...
IF/1-2	Logan, B. G.	Overview of U.S. Heavy-Ion Fusion Progress
Missing	Holstein, P.A.	UPDATE ON LMJ TARGET PHYSICS
IF/1-4Ra	Tanaka, K	Direct Heating and Basic Experiments for Fast Ig...
IF/1-4Rb	Key, M.H.	Comparative study of electron and proton heating...
IF/1-5	Nakao, Y	Two-Dimensional Fokker-Planck Analysis of Core P...
IF/P7-14	Nagai, K	Fabrication of Cryogenic Targets for Fast Igniti...
IF/P7-26	Kalinin, Yury	Study on the Pulsed Power Fusion at the Kurchato...
Missing	Haines, M.G	Fast Ignition Studies and Magnetic Field Generat...
IF/P7-28	Sen Gupta, Sudip	Generation of Relativistic Electron Beam and its...
IF/P7-29	Nagatomo, H	Development of Fast Ignition Integrated Intercon...
Missing	Osman, F	Theory of ps-Laser Nonlinear Force Driven Ion Be...
IF/P7-31	Murakami, M	Innovative Ignition Scheme for IFE - Impact Igni...
Missing	Suter, L. J.	Recent findings in NIF ignition target physics a...
IF/P7-34	Velarde, G.	Progress in Inertial Fusion Energy Modelling at ...
IF/P7-36	Shukla, M.	Laser ablation induced shock pressure amplificat...
IF/P7-5	Kozaki, Y	A New Concept of Laser Fusion Experimental React...
Missing	Starodub, A.N.	Laser Driver for IFE: Novel Approach
IT/1-1	Shimada, M.	Progress in physics basis and its impact on ITER
IT/1-2	Saibene, G.	Dimensionless identity experiments in JT-60U and...
IT/1-3	Gordon, C.	ITER Licensing
IT/1-4	Mitchell, N.	Design of the ITER Magnets to Provide Plasma Ope...
IT/1-5	Ioki, K.	Convergence of Design and Fabrication Methods fo...
IT/P3-16	Bohmeyer, W.	Transport and Deposition of Hydrocarbons in the ...
IT/P3-17	Day, Chr	Validated Design of the ITER Main Vacuum Pumping...
IT/P3-18	Doerner, R.P.	Carbon Erosion Mitigation by Beryllium Layer For...
IT/P3-19	Donné, A.J.H.	Progress with High Priority R&D Topics in Suppor...
IT/P3-20	Giancarli, L.	Objectives and Progress of the ITER Test Blanket...
IT/P3-21	Gorodetsky, A.E.	Interaction of atomic hydrogen with charcoal at ...
IT/P3-22	Gribov, Y.	Study of ITER RWM control with semi-analytical m...
IT/P3-23	Krasilnikov, A.V.	Status of ITER Neutron Diagnostic Development
IT/P3-24	Kukushkin, A.S.	Modelling Studies of ITER Divertor Plasma
IT/P3-25	Pacher, G. W.	Modelling of ITER Improved H-mode Operation with...
IT/P3-26	Landman, I.S.	Numerical simulations for ITER divertor armour e...
IT/P3-27	Morozov, D. Kh.	Modeling of Noble Gas Injection into Tokamak Pla...
IT/P3-28	Polevoi, A.R.	Requirements for pellet injection in ITER scenar...
IT/P3-29	Sugihara, M.	Analysis of Disruption Scenarios and Their Mitig...
IT/P3-30	Zhitlukhin, A.M.	Experimental assessment of the effects of ELMs a...

IT/P3-31	Vlad, G	Effects of Alpha Particle Transport Driven by Al...
IT/P3-32	Cordey, J.G.	The scaling of confinement in ITER with β and co...
IT/P3-33	Houlberg, W.A.	Integrated modeling of the current profile in st...
IT/P3-34	Loarte, A.	Expected energy fluxes onto ITER Plasma Facing C...
IT/P3-35	Martin, Y.R.	H-mode threshold power dependences in ITPA thres...
IT/P3-36	Sips, A.C.C.	Study of advanced tokamak performance using the ...
IT/P3-37	Kinsey, J.E.	Transport Modeling and Gyrokinetic Analysis of A...
IT/P3-42	Kallne, J	Advanced neutron diagnostics for ITER fusion exp...
OV/1-1	Ide, S	Overview of JT-60U Progress towards Steady-state...
OV/1-2	Pamela, J	Overview of JET results
OV/1-3	Luce, T.C.	Development of Burning Plasma and Advanced Scena...
OV/1-4	Motojima, O	Confinement and MHD stability in the Large Helic...
OV/1-5	Guenter, S.	Overview of ASDEX Upgrade Results
OV/2-1	Diamond, P.H.	Overview of Zonal Flow Physics
OV/2-2	Jacquintot, J.	Steady-state operation of Tokamaks: key physics ...
OV/2-3	Kaye, S. M.	Progress Towards High Performance Plasmas in the...
OV/2-4	Counsell, GF	Overview of MAST results
OV/2-5	Greenwald, M. J.	Overview of Alcator C-Mod Research Program
Missing	Lindl, J. D.	Recent Advances in Indirect Drive ICF Target Phy...
OV/3-2	Izawa, Y	Laser Fusion research with GEKKO XII and PW lase...
OV/3-3	Mccrory, R. L.	Direct-Drive Inertial Confinement Fusion Researc...
OV/3-4	Sharkov, B.Yu.	Acceleration Technology and Power Plant Design f...
OV/3-5Ra	Olson, C. L.	Progress on Z-Pinch Inertial Fusion Energy
OV/3-5Rb	Haines, M.G	Wire Array Z pinch precursors, implosions and st...
OV/3-5Rc	Grabovski, E. V.	THE RESEARCH OF RADIATING Z PINCHES FOR THE PUR...
OV/4-1	Stork, D	Overview of Transport, Fast Particle and Heating...
OV/4-2	Prager, S.C.	Overview of Results in the MST Reversed Field Pi...
OV/4-3	Alejaldre, C.	Overview of TJ-II experiments
OV/4-4	Vershkov, V. A.	Summary of Experimental Core Turbulence Characte...
OV/4-5	Moret, J.-M.	Progress in the understanding and the performanc...
OV/4-6	Gormezano, C	Overview of the FTU Results
OV/5-1Ra	Liu, Y.	Recent Advances in the HL-2A Tokamak Experiments
OV/5-1Rb	Wan, B.N.	Overview of the last HT-7 experiments
OV/5-2	Zushi, H	overview of steady-state tokamak operation in TR...
OV/P4-9	Murari, A	New developments in JET Neutron, Alpha Particle ...
OV/P6-15	Gryaznevich, M	Joint Research Using Small Tokamaks
PD/1-1	Hastie, R. J.	Non Linear Stability of Tearing Mode Islands
PD/P1-1	Ciraolo, G.	Control of chaotic transport in Hamiltonian syst...
PD/P1-2	Shiina, S.	Economically Attractive Features of Steady-S...
S/1-1	Ninomiya, H.	Conference Summary: Experiments in confinement &...
S/1-2	Stambaugh, R. D.	Stability,Energetic Particles,Waves,and Current ...
S/1-3	Connor, J.W	Magnetic Confinement Theory Summary
S/1-4	Basko, M.	Inertial Confinement Fusion: steady progress tow...
SE/P3-15	Porfiri, M.T.	Benchmark calculation for spills of cryogenic He...

Missing	Cook, I	Fusion power in a sustainable future
SE/P3-39	Eherer, C.	Nuclear Fusion as New Energy Option in a Global ...
SE/P3-40	Hiwatari, R.	Introduction condition of a tokamak fusion power...
SE/P3-41	Schmidt, J.A.	Socio-economic Aspects of Fusion
TH/1-1	Callen, J.D.	Paleoclassical Electron Heat Transport
TH/1-2	Del-Castillo-Negrete, D.	Non-diffusive transport in 3-D pressure driven p...
TH/1-3Ra	Ghendrih, Ph	Scaling Intermittent Cross-Field Particle Flux t...
TH/1-3Rb	Benkadda, S	Nonlinear Dynamics of Transport Barrier Relaxati...
TH/1-3Rc	Becoulet, M.	Non-linear Heat Transport Modelling with Edge L...
TH/1-3Rd	Falchetto, G. L.	Impact of zonal flows on turbulent transport in ...
TH/1-4	Hahm, T.S.	Gyrokinetic Studies of Turbulence in Steep Gradi...
TH/1-5	Xu, X.Q.	Density effects on tokamak edge turbulence and t...
TH/1-6	Hayashi, N.	Profile Formation and Sustainment of Autonomous ...
TH/2-1	Liu, Y.Q.	Feedback and Rotational Stabilization of Resisti...
TH/2-2	Strauss, H. R.	Halo Current and Resistive Wall Simulations of I...
TH/2-3	Miura, H.	Non-disruptive MHD Dynamics in Inward-shifted LH...
TH/3-1Ra	Todo, Y.	Nonperturbative effects of energetic ions on Alf...
TH/4-1	Ernst, D. R.	Mechanisms for ITB Formation and Control in Alca...
TH/5-1	Zonca, F.	Transition from weak to strong energetic ion tra...
TH/5-2Ra	Berk, H. L.	Theoretical Studies of Alfvén Wave - Energetic P...
TH/5-2Rb	Gorelenkov, N.N	Fast ion effects on fishbones and n=1 kinks in J...
TH/5-3	Nabais, F. J. R.	Internal kink mode stability in the presence of ...
TH/5-4	Guzdar, P. N.	Theory and Theory-based Models for the Pedestal,...
TH/5-5	Connor, J.W	The stability of internal transport barriers to ...
TH/5-6	Nakajima, N	Boundary modulation effects on MHD instabilities...
TH/6-1	Sen, A	Effect of sheared flows on neoclassical tearing ...
TH/6-2	Poli, E.	Kinetic Calculations of the NTM Polarisation Cur...
TH/6-3	Pustovitov, V.D.	A Possible Mechanism for the Seed Island Formation
TH/7-1	Scott, B.D	The Confluence of Edge and Core Turbulence and Z...
TH/8-1	Idomura, Y	Global Gyrokinetic Simulations of Toroidal Elect...
TH/8-2	Waltz, R.E.	Advances in Comprehensive Gyrokinetic Simulation...
TH/8-3Ra	Hamaguchi, S	Intermittent Transport and Relaxation Oscillatio...
TH/8-3Rb	Watanabe, T.-H.	Velocity-Space Structures of Distribution Functi...
TH/8-4	Lin, Z	Electron Thermal Transport in Tokamak: ETG or TE...
TH/8-5Ra	Li, J.Q	Dynamics of large-scale structure and electron t...
TH/8-5Rb	Miyato, N	Study of drift wave-zonal mode system based on g...
TH/P1-1	Furukawa, M.	Mechanism of stabilization of ballooning modes b...
TH/P1-5	Wilson, H.R	Theory of Plasma Eruptions
TH/P2-10	Tuda, T	Pair Vortices Formation near magnetic Axis as an...
Missing	Kovrizhnykh, L. M.	Steady State Solutions to Neoclassical Transport...
TH/P2-18	Satake, S.	Finite-Orbit-Width Effect and the Radial Electri...
TH/P2-19	White, R. B.	Transport in a small aspect ratio torus
TH/P2-2	Dong, J.Q.	Sheared flow layer formation in tokamak plasmas ...
	Herrera Velázquez,	

TH/P2-23	J.J.E.	Instability Suppression by Sheared Flow in Dense...
TH/P2-24	Hudson, S.R.	Influence of pressure-gradient and shear on ball...
TH/P2-25	Kruger, S.E.	Simulations of the Disruption of a DIII-D Plasma...
TH/P2-29	Shaing, K. C.	Toroidal Momentum Confinement in Tokamaks and Ma...
TH/P2-3	Fukuyama, A	Advanced Transport Modeling of Toroidal Plasmas ...
TH/P2-30	Sugiyama, L. E.	Two-fluid limits on stellarator performance: Exp...
TH/P2-31	Suzuki, Y	Theoretical considerations of doublet-like confi...
TH/P2-4	Kessel, C. E.	Advanced ST Plasma Scenario Simulations for NSTX
TH/P2-9	Tala, TJJ	Progress in Transport Modelling of Internal Tran...
TH/P3-1	Andreev, V.F.	The evolution of the transport coefficients for ...
TH/P3-5	Horton, Wendell	Electron Thermal Transport in Tore Supra and NSTX
TH/P3-6	Kalupin, Denis	Self-consistent modelling of L-H transition and ...
TH/P3-7	Kiviniemi, T.P.	Particle simulation of plasma turbulence and neo...
TH/P3-9	Parks, P.B.	Recent Advances in the Theory and Simulation of ...
TH/P4-18	Dies, J	Importance of Electron Cyclotron Wave Energy Tra...
TH/P4-2	Daybelge, U.	Effects of Steep Gradients and Stochasticity on ...
TH/P4-20	Farengo, R	Theoretical Studies of non Inductive Current Dri...
TH/P4-30	Murakami, S	A Global Simulation of ICRF Heating in a 3D Magn...
TH/P4-31	Nikolic, Lj.	ON ELECTRON-CYCLOTRON WAVES IN RELATIVISTIC NON-...
TH/P4-33	Ram, A. K.	Current Drive by Electron Bernstein Waves in Sph...
TH/P4-35	Wright, JCW	Nonthermal Particle and Full-Wave Diffraction Ef...
TH/P4-38	Fu, G. Y.	Global Hybrid Simulations of Energetic Particle-...
TH/P4-39	Helander, P	Runaway electron generation in tokamak disruptions
TH/P4-40	Hellsten, T.Ak.K.	Non-Linear Study of Fast Particle Excitation of ...
TH/P4-42	Kolesnichenko, Ya.I.	Non-conventional fishbone instabilities
TH/P4-43	Konovalov, S.V.	INFLUENCE OF ANOMALOUS TRANSPORT PHENOMENA ON O...
TH/P4-46	Tokuda, S.	External mode analysis in a tokamak by the Newco...
TH/P4-48	Yakovenko, Yu.V.	Confinement Relevant Alfvén Instabilities in Wen...
TH/P4-49	Yavorskij, Victor	Confinement of Charged Fusion Products in Revers...
TH/P4-7	Ludwig, G.O.	Modeling and measurement of eddy currents in the...
TH/P5-10	Konovalov, S.V.	DEVELOPMENT OF THEORY OF REVERSED-SHEAR ALFVEN E...
TH/P5-17	Yagi, M	Nonlinear Simulation of Tearing Mode and m=1 Kin...
TH/P5-18	Coster, D.P.	Integrated modelling of material migration and t...
TH/P5-2	Coelho, R.M.D.A.	Mode coupling effects on the triggering of neocl...
TH/P5-26	Morozov, D.Kh.	Propagation and stability of perturbations in ra...
TH/P5-31	Singh, Raghendra	Radiative Improved Mode in a Tokamak: a theoreti...
TH/P6-1	Dewar, R.L.	Complex nonlinear Lagrangian for the Hasegawa-Mi...
TH/P6-10	Van Milligen, B. Ph.	Transport up the gradient and probabilistic tran...
TH/P6-11	Wang, Aike	Synergistic effects of magnetic and velocity she...
TH/P6-13	Sozzi, C	Experimental Observations Related To The Thermod...
TH/P6-2	D'Ippolito, D. A.	Convective Transport in Tokamaks
TH/P6-3	Hallatschek, K.	Forces on Zonal Flows in Tokamak Core Turbulence

TH/P6-39	Chang, C. S.	Monte Carlo Particle Simulation of Neoclassical ...
TH/P6-4	Hirose, A.	On dependence of thermal transport on the safety ...
TH/P6-5	Holland, C.	Multiscale Studies of ETG and Drift Wave Turbulence...
TH/P6-55	Dnestrovskij, Y.N.	Simulation of Internal Transport Barriers by the...
TH/P6-56	Kukushkin, A.B.	Influence of Suprathermal Electrons Kinetics on ...
Missing	Nevins, W.M.	Statistical Analysis of ITG Turbulence
TH/P6-7	Sarazin, Y.	Thermodynamical properties of gyrokinetic simula...
Missing	Shurygin, R.V.	Numerical simulation of the electromagnetic plas...
TH/P6-9	Terry, P.W.	A Comprehensive Spectral Theory of Zonal-Mode Dy...