

25th IAEA Fusion Energy Conference - IAEA CN-221

Thursday, October 16, 2014

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[305] Study of Neutral Hydrogen Transport in LHD Core Plasmas Based on High Dynamic-Range Balmer-Alpha Spectroscopy	Dr FUJII, Keisuke	
[456] Verification of the Simulated Radiated Power of the ICRH Antenna Design for Wendelstein 7-X with Experimental Results Using a Quarter Scale Mock-up Antenna	Dr ONGENA, Jozef	
[347] How Turbulence Spreading Decouples the Flux from the Local Gradient: a Nonlinear Gyrokinetic Simulation Study	Dr YI, Sumin	
[198] NBI and HHFW Fast Ion Temporal Dynamics Modeling with CQL3D-Hybrid-FOW in NSTX Discharges	Dr HARVEY, Robert W.	
[108] Theoretical and Simulation Studies on the Wave and Particle Dynamics Associated with Alfvén Eigenmodes in Tokamak Plasmas	Prof. MA, ZHIWEI	
[272] Integrated Modeling of Tokamak Experiments with OMFIT	Dr MENEZHINI, Orso	
[106] Computational Study of Magnetic Field Compression by Laser Driven Implosion	Mr NAGATOMO, Hideo	
[31] Stabilization Effect of Weibel Modes in Relativistic Laser Fusion Plasma	Prof. SID, Abdelaziz	
[37] Modelling the Effect of Lithium on SOL Dynamics and the SOL Heat Flux Width Observed in NSTX	Dr RUSSELL, David	
[645] Alfvén Oscillations in the TUMAN-3M Tokamak Ohmic Regime	Mr TUKACHINSKY, Alexander	
[337] Pressure Driven MHD Instabilities in Intrinsic and Externally Enhanced Magnetic Stochastic Region of LHD	Dr OHDACHI, Satoshi	
[556] Development of Impurity Seeding and Radiation Enhancement at Helical Divertor in LHD	Dr MUKAI, Kiyofumi	
[686] Study of the Alfvén Wave Coupling in the SUNIST Spherical Tokamak	Mr TAN, Yi	
[553] Development of Real Time Multiple Control Algorithm for Integrated Control of Plasma Profiles and Neoclassical Tearing Mode	Mr KIM, Hyun-Seok	
[612] Multi-Device Studies of Pedestal Physics and Confinement in the I-Mode Regime	Dr HUBBARD, Amanda	
[611] Effect of Horizontal Displacement on Fast Ion Confinement in TUMAN-3M	Mr KORNEV, Vladimir	
[133] Modeling Divertor Concepts for Spherical Tokamaks NSTX, NSTX-U and ST-FNSF	Mr LEONARD, Anthony W.	
[20] New In-Situ Measurements for Plasma Material Interaction Studies in Alcator C-Mod	Dr WHYTE, Dennis	
[21] High Compression of Matter by Hyperspherical Shock Waves for Application to Impact Ignition	Prof. MURAKAMI, Masakatsu	
[407] Integrated Heat Transport Simulation of High Ion Temperature Plasma of LHD	Dr MURAKAMI, Sadayoshi	

[228] Study of Transport Characteristics of Multiple Impurities Depending on the Impurity Source Location in LHD	Prof. SUDO, Shigeru	
[392] Development of Quantitative Atomic Modeling for Tungsten Transport Study Using LHD Plasma with Tungsten Pellet Injection	Prof. MURAKAMI, Izumi	
[395] Transport Simulation Analysis of Peripheral Plasma with the Open and the Closed LHD Divertor	Dr KAWAMURA, Gakushi	
[81] The Role of Lithium Conditioning in Achieving High Performance, Long Pulse H-Mode Discharges in the NSTX and EAST Devices	Dr MAINGI, Rajesh	
[241] Counter Implosion of 500-μm Diameter CD Shell and Fast Heating of its Core Plasma by Tailored DPSSL-Pumped Laser	Mr NISHIMURA, Yasuhiko	
[457] Self-Consistent Modeling of Radio-Frequency Sheaths: Comparison with Tore Supra Measurements and Predictability for Future Machines	Dr COLAS, Laurent	
[203] Transient CHI Plasma Start-up Simulations and Projections to NSTX-U	Prof. NELSON, Brian	
[209] New Insights into Short-Wavelength, Coherent Edge Fluctuations on Alcator C-Mod	Mr GOLFINOPOULOS, Theodore	
[73] Optimization of High Harmonic ECRH Scenario to Extend a Heating Plasma Parameter Range in LHD	Prof. SHIMOZUMA, Takashi	
[71] Experimental Observation of Plasma Response to Resonant Magnetic Perturbation and its Hysteresis in LHD	Dr NARUSHIMA, Yoshiro	
[70] Nonlinear Excitation of Kinetic Geodesic Acoustic Modes by Drift Waves in Nonuniform Plasmas	Prof. CHEN, Liu	
[655] Impact of 3-D Fields on Divertor Detachment in NSTX and DIII-D	Dr PETRIE, Thomas W.	
[669] High Density LHRF Experiments in Alcator C-Mod and Implications for Reactor Scale Devices	Dr LABOMBARD, Brian	
[694] Plasma Mirror technology on a PW, multi-kJ class Laser to reduce the pre-formed plasma for application to Fast Ignition research.	Mr MORACE, Alessio	
[548] 1Hz Pellets Injection and Laser Synchronous System for Continuous Laser Confinement Fusion and Neutron Generation	Dr HANAYAMA, Ryohei	
[125] Destabilization of Internal Kink by Suprathermal Electron Pressure Driven by Lower Hybrid Current Drive (LHCD)	Dr SUGIYAMA, Linda E	
[415] Analysis of Radial Electric Field Formation by Asymmetry of Neutral Beam Injection on KSTAR and NSTX Based on the Gyro-Center Shift	Dr LEE, Kwan Chul	
[418] Comprehensive Understandings of Energy Confinement in LHD Plasmas through Extensive Application of the Integrated Transport Analysis Suite	Dr YOKOYAMA, MASAYUKI	
[136] Studies of Dust Transport in Long Pulse Discharges in the Large Helical Device	Dr SHOJI, Mamoru	
[310] Abrupt Reversal of Convective Flow of Carbon Impurity during Impurity-Hole Formation on LHD	Dr YOSHINUMA, Mikirou	
[784] Effects of Ion Diffusion on Fusion Burn at the Shock Flash in Inertial-Confinement Fusion Implosions	Mr LI, Chikang	
[786] Effect of Pre-Plasma on Intense Electron Beam Generation by Relativistic Laser Radiation	Mr BEG, Farhat	
[787] Conception of a Cryogenic Target Factory for IFE	Ms KORESHEVA, Elena	
[783] Experimental Platform for Efficient Heating of Fusion Fuel with Fast-Ignition Scheme	Mr FUJIOKA, Shinsuke	

[789] A High-Energy and Highly Repetitive fs/ps Laser Using Optical Parametric Chirped-Pulse Amplification with a ns Beam Combined Pumping Laser for Fast Ignition	Mr KONG, Hong Jin	
[151] Energy Transport by MeV Hot Electrons in Fast Ignition Plasma Driven with LFEX PW Laser	Dr ZHANG, Zhe	
[575] GAM Evolution and LH-Transition in the TUMAN-3M Tokamak	Mr BELOKUROV, Alexander	
[256] Conceptual Design of kilo-Joule Laser Driver for Inertial Fusion Mini-Reactor CANDY	Mr SEKINE, Takashi	
[603] Kinetic Integrated Modeling of Burning Start-up Phase in Tokamaks	Prof. FUKUYAMA, Atsushi	
[506] Experimental Observation of Nonlocal Electron Thermal Transport in NSTX RF-Heated L-Mode Plasmas	Dr LEE, Kwan Chul	
[461] The Perspectives of the Use of the Advanced Fuels for Power Production	Prof. SHMATOV, Mikhail	
[631] Rotation Instability of Neoclassical Plasma Near Magnetic Separatrix	Prof. DAYBELGE, Umur	
[633] Modelling of Spatial Structure of Divertor Power Loads Caused by Edge-Localized Modes Mitigated by Magnetic Perturbations	Dr CAHYNA, Pavel	
[162] Fast Ignition Experiments and Intense Hard-X-Ray Harsh Environment	Prof. SHIRAGA, Hiroyuki	
[217] Extension of Kinetic-Magnetohydrodynamic Model to Include Toroidal Rotation Shear Effect and its Application to Stability Analysis of Resistive Wall Modes	Dr SHIRAIISHI, Junya	
[211] 1000 Times Enhancement of Fusion Reaction in Relation to Fast-Ion Heating Induced by a Direct-Irradiating Fast-Ignition Scheme	Dr MORI, Yoshitaka	
[53] Interaction between Resistive Interchange Mode and Helically Trapped Energetic Ions and its Effects on the Energetic Ions and Bulk Plasmas in LHD	Mr DU, Xiaodi	
[826] Direct heating of imploded plasma by fast-ions in the fast ignition scheme	Dr SUNAHARA, Atsushi	
[821] Innovative Concept of the Compression and Heating of the Plasma Targets in the Scheme for Magneto-Inertial Fusion	Dr RYZHKOV, Sergei	
[820] Overview of the results of the ABC facility at ENEA- Frascati	Dr DE ANGELIS, Riccardo	
[157] Electromagnetic Gyrokinetic Analysis of Turbulent Transport in Finite-Beta LHD Plasmas	Dr ISHIZAWA, Akihiro	
[42] Characteristics of MHD Instabilities Limiting Beta Value in LHD	Prof. SAKAKIBARA, Satoru	
[41] Control of Electron Beam Using Strong Magnetic Field for Efficient Core Heating in Fast Ignition	Dr JOHZAKI, TOMOYUKI	
[488] Plasma Structure Change and Intermittent Fluctuation near Magnetic Island X-Point under Detached Plasma Condition in LHD	Prof. OHNO, Noriyasu	
[485] Increasing Laser Power Density towards IFE Requirements: High-Power Laser Diode Bars	Dr WÖLZ, Martin	
[477] Analysis of ITB and ETB Formations in Tokamak Plasma Using Bifurcation Concept	Dr ONJUN, thawatchai	