APPENDIX 4. List of Publications I (NIFS Series)

NIFS-832 N. Hatano, R. Shirasaki and H. Nakamura  
Magnetization of a Two-Dimensional Electron Gas with a Spin-orbit Interaction  
Apr. 2006

NIFS-833 M. Rajkovic and M. Skoric  
Multifractal Characterization of L- and H-mode Plasma Edge Turbulence  
June 2006

NIFS-834 O. Motojima et al  
Extended Steady-State and High-Beta Regimes of Net-Current Free Heliotron Plasmas in the Large Helical Device  
Oct. 2006

NIFS-835 A. Fujisawa et al.  
Experimental Progress on Zonal Flow Physics in Toroidal Plasmas  
Oct. 2006

NIFS-836 J. Miyazawa et al.  
Density Regime of Complete Detachment and Operational Density Limit in LHD  
Oct. 2006

NIFS-837 M. Yokoyama et al.  
Core Electron-Root Confinement (CERC) in Helical Plasmas  
Oct. 2006

NIFS-838 T.-H. Watanabe and H. Sugama  
Gyrokinetic Theory and Simulation of Zonal Flows and Turbulence in Helical Systems  
Oct. 2006

NIFS-839 S. Okamura et al.  
Progress of Confinement Physics Study in Compact Helical System  
Oct. 2006

NIFS-840 N. Tamura et al.  
Impact of Nonlocal Electron Heat Transport on the High Temperature Plasmas of LHD  
Oct. 2006

NIFS-841 S. Sakakibara et al.  
Stability in High-Beta Plasmas of LHD  
Oct. 2006

NIFS-842 N. Ohyabu et al.  
Super Dense Core Plasma due to Internal Diffusion Barrier in LHD  
Oct. 2006

NIFS-843 K. Toi et al.  
Characteristic Features of Edge Transport Barrier Formed in Helical Divertor Configuration of the Large Helical Device  
Oct. 2006

NIFS-844 T. Mutoh et al.  
Steady-State Operation of ICRF Heated Plasma in the Large Helical Device  
Oct. 2006

NIFS-845 S. Masuzaki et al.  
Particle Balance Study in the Large Helical Device  
Oct. 2006

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NIFS-846 N. Ohno et al.
Bursty Fluctuation Characteristics in SOL/Divertor Plasmas of Large Helical Device
Oct. 2006

NIFS-847 M. Tokitani et al.
Quantitative Analysis of Plasma Particles in Materials Exposed to LHD Divertor Plasmas
Oct. 2006

NIFS-848 K. Ida et al.
Dynamic Transport Study of the Plasmas with Transport Improvement in LHD and JT-60U
Oct. 2006

NIFS-849 Y. Takeiri et al.
Confinement Improvement in High-temperature Plasmas Heated with High-energy Negative-NBI in LHD
Oct. 2006

NIFS-850 M. Isobe et al.
Fast Ion-Driven MHD Instabilities and Consequent Fast Ion Losses in the Compact Helical System
Oct. 2006

NIFS-851 K. Saito et al.
Study of High-energy Ion Tail Formation with Second Harmonic ICRF Heating and NBI in LHD
Oct. 2006

NIFS-852 M. Yoshinuma
Formation of Radial Electric Field Shear at Boundary of Magnetic Island in LHD
Oct. 2006

NIFS-853 S. Kado et al.
Dynamics of the Pedestal Structure in the Edge Transport Barrier in CHS
Oct. 2006

NIFS-854 S. Morita et al.
Characteristic Features of Edge Localized Mode under the Presence of Edge Ergodic Magnetic Field Layer in LHD
Oct. 2006

NIFS-855 H. Yamada et al.
Density Limit in Discharges with High Internal Inductance on JT-60U
Oct. 2006

NIFS-856 S. Ohdachi et al.
Two-Dimensional Structure of MHD Instabilities and their Non-Linear Evolution in the Large Helical Device
Oct. 2006

NIFS-857 N. Nakajima
Thermal Diffusion by Stochastic Electromagnetic Fluctuations
Oct. 2006

NIFS-858 S. Satake
Global Simulation of the GAM Oscillation and Damping in a Drift Kinetic Model
Oct. 2006

NIFS-859 A. Ishizawa et al.
Multi-Scale-Nonlinear Interactions among Micro-turbulence, Magnetic Islands, and Zonal Flows
Oct. 2006

NIFS-860 R. Ishizaki et al.
MHD Simulation on Ablation Cloud in Tokamak and Heliotron
Oct. 2006
NIFS-861 N. Kasuya and K. Itoh
Two-dimensionally Steep Structure of the Electric Field in Tokamak H-mode
Oct. 2006

NIFS-862 N. Mizuguchi et al.
Nonlinear Simulation of Edge-Localized Mode in Spherical Tokamak
Oct. 2006

NIFS-863 A. Iwamoto et al.
Development of the Foam Cryogenic Target for the FIREX Project
Oct. 2006

NIFS-864 S. Imagawa et al.
Achievement of High Availability in Long-term Operation and Upgrading Plan of the LHD
Superconducting System
Oct. 2006

NIFS-865 O. Kaneko et al.
High Performance Operation of Negative-Ion-Based Neutral Beam Injection System for the Large
Helical Device
Oct. 2006

NIFS-866 T. Tanaka et al.
Neutronics Investigation of Advanced Self-Cooled Liquid Blanket Systems in Helical Reactor
Oct. 2006

NIFS-867 O. Mitarai et al.
Minimization of the External Heating Power by Long Fusion Power Rise-up Time for Self-ignition
Access in the Helical Reactor FFHR2m
Oct. 2006

NIFS-868 Y. Nakamura et al.
Analysis of Net Plasma Currents in Non-Axisymmetric Plasmas
Oct. 2006

NIFS-869 K. Itoh et al.
Physics of Electron Internal Transport Barrier in Toroidal Helical Plasmas
Oct. 2006

NIFS-870 H. Sugama, T.-H. Watanabe and W. Horton
Collisionless Kinetic-fluid Model of Zonal Flows in Toroidal Plasmas
Dec. 2006

NIFS-871 M. Nunami, R. Kannno, S. Satake H. Takamaru, H. Sugama and M. Okamoto
Neoclassical Transport Analysis around An m/n = 1/1 Magnetic Island
Mar. 2007

NIFS-DATA-97 T. Ono, K. Shibata, T. Kenmotsu, T. Muramoto, Z. Li c T. Kawamura
Extended Incident-Angle Dependence Formula of Sputter Yield
June 2006

NIFS-DATA-98 M. Kimura, A. Igarashi, M. Imai, Y. Itikawa, M. Kitajima, T. Kusakabe, K. Moribayashi,
T. Morishita, K. Motohashi, L. Pichl, R. Suzuki, D. Kato, I. Murakami, T. Kato and
M. Kato
Report on Cross Section Data Compilation for electron and Ion Collisions with
Molecules of Hydrogen, Hydrogen Isotopes, Nitrogen, Oxygen, Hydrocarbons, Water
and Carbon Oxide
Sep. 2006
NIFS-DATA-99  I. Skobelev, I. Murakami and T. Kato
Recommended Data on Proton-Ion Collision Rate Coefficients for Fe XVII - FE XXIII Ions
Jan. 2007

NIFS-MEMO-49  Y. Ogawa and K. Okano
Socio-Economic Research for Innovative Energy Technologies
Oct. 2006

NIFS-MEMO-50  Safety and Environmental Research Center, National Institute for Fusion Science
Nov. 2006

NIFS-MEMO-51  Edited by the SNET Task: R. Horiguchi (Chair), Kenzo Tsuda, Y. Nagayama,
S. Ishiguro, T. Yamamoto, S. Takami (Network Manager)
Summary Report using SNET( Network for Collaboration using Super-SINET) in the 2005 fiscal year
Nov. 2006

NIFS-MEMO-52  T. Yamamoto
Feb. 2007

NIFS-MEMO-53  T. Yamamoto
Development of a File Exchange System Based on the FTP Service Using Temporary Accounts
Mar. 2007

NIFS-PROC-62  Edited by H. Akiyama and S. Katsuki
Physics and Applications of High Energy Density Plasmas Produced by Pulsed Power
Apr. 2006

NIFS-PROC-63  K. Toi (Ed.)
Proceedings of 9th IAEA Technical Meeting on "Energetic Particles in Magnetic Confinement Systems" 9 to 11 November 2005, Hida Earth Wisdom Center, Takayama, Japan
Apr. 2006

NIFS-PROC-64  Ed. W. Jiang
The Frontiers of Pulse Power and Particle Beam Technology
June 2006

NIFS-PROC-65  H. Sanuki
SOKENDAI Lecture Series "Mathematics for Physics "Mathematical Tools for Nonlinear Phenomena (Lecture series 1)
June 2006

NIFS-TECH-14  T. Watanabe, M. Yoshida, S. Masuzaki, M. Emoto and Y. Nagayama
How to Use the Numerical System "LHD_LINES_OF_FORCE.EXE" for the Visualization of Lines of Force in the Large Helical Device
Sep. 2006

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