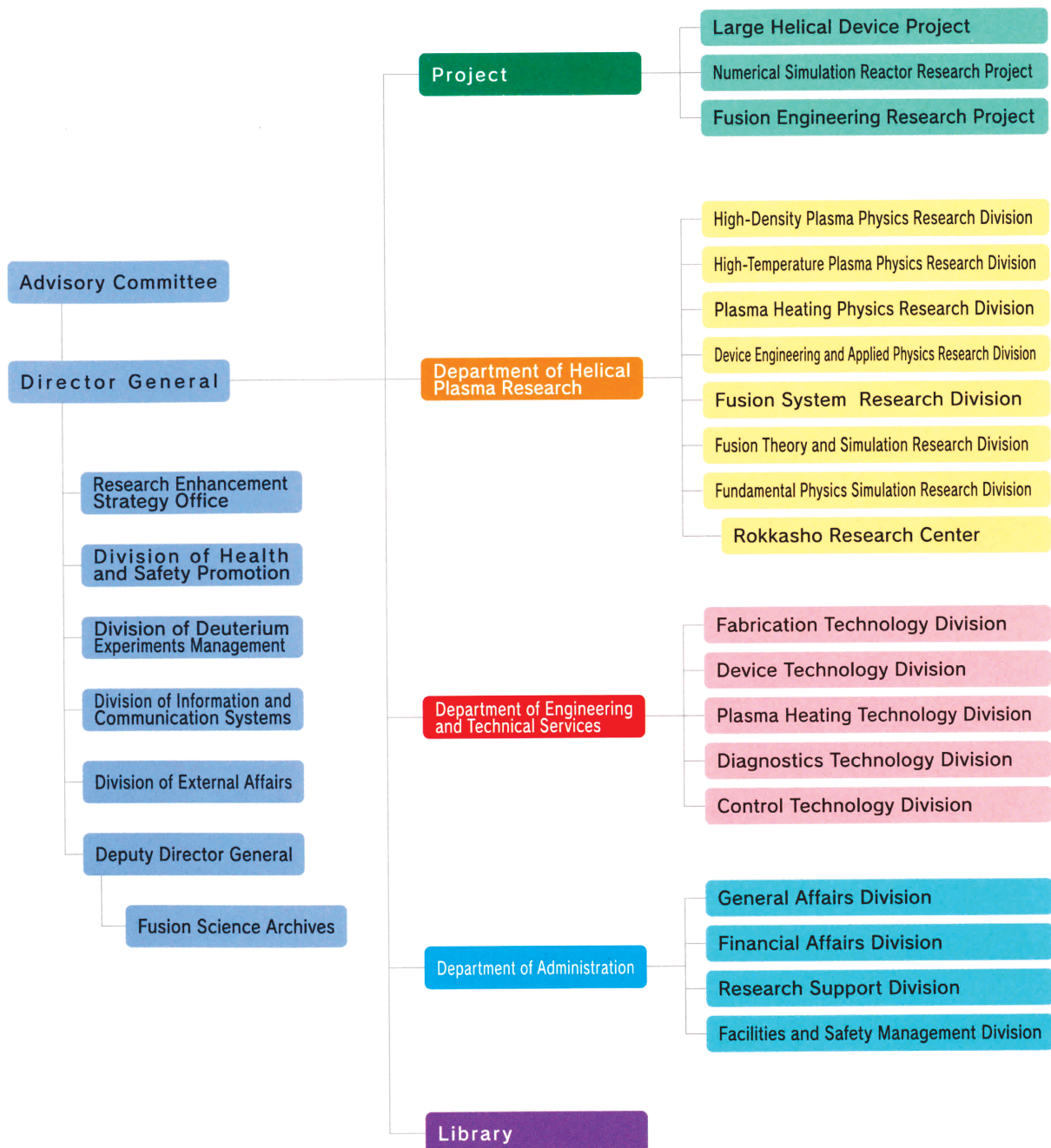


APPENDIX

APPENDIX 1. Organization of the Institute

NATIONAL INSTITUTE for FUSION SCIENCE

Organization



APPENDIX 2. Members of Committees

Advisory Committee

Advisory Committee

ANDO, Akira	Professor, Graduate School of Engineering, Tohoku University
USHIGUSA, Kenkichi	Managing Director, Fusion Energy Research and Development Directorate, National Institutes for Quantum and Radiological Science and Technology
OHNO, Noriyasu	Director, Graduate School of Engineering, Nagoya University
OGAWA, Yuichi	Professor, Graduate School of Frontier Science, The University of Tokyo
KODAMA, Ryousuke	Director, Institute of Laser Engineering, Osaka University
NAGASAKI, Kazunobu	Professor, Institute of Advanced Energy, Kyoto University
NAKASHIMA, Yousuke	Director, Plasma Research Center, University of Tsukuba
HANADA, Kazuaki	Director, Research Institute for Applied Mechanics, Kyushu University
WATANABE, Tomohiko	Professor, Department of Physics, Nagoya University
WADA, Motoi	Professor, Faculty of Science and Engineering, Doshisha University
MUROGA, Takeo	Deputy Director General, NIFS and Executive Director of Fusion Engineering Research Project, NIFS
MORISAKI, Tomohiro	Executive Director of Large Helical Device Project (on Science), NIFS
OSAKABE, Masaki	Executive Director of Large Helical Device Project (on Device), NIFS
SUGAMA, Hideo	Executive Director of Numerical Simulation Research Project, NIFS
YANAGI, Nagato	Executive Director of Fusion Engineering Research Project, NIFS
KUBO, Shin	Director of Plasma Heating Research Division, NIFS
MITO, Toshiyuki	Director of Device Engineering and Applied Physics Research Division, NIFS
MURAKAMI, Izumi	Director of Fusion Systems Research Division, NIFS
TODO, Yasushi	Director of Fusion Theory and Simulation Research Division, NIFS
ISHIGURO, Seiji	Director of Fundamental Physics Simulation Research Division, NIFS
NISHIMURA, Kiyohiko	Division Director for Health and Safety Promotion, NIFS

※ This list was compiled as of March 31, 2019

APPENDIX 3. Advisors, Fellows, and Professors Emeritus

Advisors

Michael Tendler Professor
Royal Institute of Technology
Alfvén Laboratory

Fellows

YAMADA, Hiroshi

Professors Emeritus

ICHIKAWA, Yoshihiko (1993)	OHYABU, Nobuyoshi (2010)
MIZUNO, Yukio (1994)	MATSUOKA, Keisuke (2010)
OBAYASHI, Haruo (1995)	TOI, Kazuo (2012)
FUJITA, Junji (1996)	NARIHARA, Kazumichi (2012)
KURODA, Tsutomu (1997)	KUMAZAWA, Ryuhei (2012)
AMANO, Tsuneo (1998)	UDA, Tatsuhiko (2012)
MOMOTA, Hiromu (1998)	SATO, Motoyasu (2012)
IYOSHI, Atsuo (1999)	YAMAZAKI, Kozo (2013)
HATORI, Tadatsugu (1999)	KAWAHATA, Kazuo (2013)
TANAHASHI, Shugo (2000)	OKAMURA Shoichi (2014)
KAWAMURA, Takaichi (2000)	KOMORI, Akio (2015)
SATO, Tetsuya (2001)	SUDO, Shigeru (2015)
FUJIWARA, Masami (2002)	SKORIC, Milos (2015)
TODOROKI, Jiro (2003)	MUTO, Takashi (2016)
KAMIMURA, Tetsuo (2003)	NAGAYAMA, Yoshio (2017)
OHKUBO, Kunizo (2005)	NAKAMURA, Yukio (2017)
HAMADA, Yasuji (2007)	SAGARA, Akio (2017)
KATO, Takako (2007)	ITOH, Kimitaka (2017)
NODA, Nobuaki (2008)	HORIUCHI, Ritoku(2017)
WATARI, Tetsuo (2008)	HIROOKA, Yoshihiko (2018)
MOTOJIMA, Osamu (2009)	MORITA, Shigeru (2019)
SATOH, Kohnosuke (2010)	NISHIMURA, Arata (2019)

※ This list was compiled as of March 31, 2019

APPENDIX 4. List of Staff

Director General

TAKEIRI, Yasuhiko

Deputy Director General

MUROGA, Takeo

Department of Helical Plasma Research

Prof. MUROGA, Takeo (Director)

High-Density Plasma Physics Research Division

Prof. MORISAKI, Tomohiro (Director)
Prof. YAMADA, Hiroshi
Prof. WATANABE, Kiyomasa
Prof. MORITA, Shigeru
Prof. SAKAMOTO, Ryuichi
Assoc. Prof. YOSHIMURA, Shinji
Assoc. Prof. OHDACHI, Satoshi
Assoc. Prof. SHOJI, Mamoru
Assoc. Prof. TOKUZAWA, Tokihiko
Assoc. Prof. KOBAYASHI, Masahiro

Assoc. Prof. MOTOJIMA, Gen
Asst. Prof. NARUSHIMA, Yoshiro
Asst. Prof. TAKEMURA, Yuki
Asst. Prof. TSUCHIYA, Hayato
Asst. Prof. OISHI, Tetsutaro
Asst. Prof. NISHIMURA, Shin
Asst. Prof. HAYASHI, Yuki
Asst. KAWAMOTO, Yasuko
Specially Asst. Prof. OHTSUBO, Yohko

High-Temperature Plasma Physics Research Division

Prof. SAKAKIBARA, Satoru (Director)
Prof. TANAKA, Kenji
Prof. ISOBE, Mitsutaka
Prof. IDA, Katsumi
Prof. PETERSON, Byron Jay
Assoc. Prof. GOTO, Motoshi
Assoc. Prof. AKIYAMA, Tsuyoshi
Assoc. Prof. YAMADA, Ichihiro
Assoc. Prof. OZAKI, Tetsuo
Assoc. Prof. NAKANISHI, Hideya
Asst. Prof. OGAWA, Kunihiro
Asst. Prof. KOBAYASHI, Tatsuya

Asst. Prof. MUTO, Sadatsugu
Asst. Prof. TAMURA, Naoki
Asst. Prof. FUNABA, Hisamichi
Asst. Prof. YASUHARA, Ryo
Asst. Prof. YOSHINUMA, Mikiro
Asst. Prof. SUZUKI, Chihiro
Asst. Prof. SHIMIZU, Akihiro
Asst. Prof. EMOTO, Masahiko
Asst. Prof. MUKAI, Kiyofumi
Asst. Prof. UEHARA, Hiyori
Specially Appointed Prof. NISHITANI, Takeo

Plasma Heating Physics Research Division

Prof. KUBO, Shin (Director)
Prof. SIMOZUMA, Takashi
Prof. OSAKABE, Masaki
Prof. TSUMORI, Katsuyoshi
Assoc. Prof. YOSHIMURA, Yasuo
Assoc. Prof. IGAMI, Hiroe
Assoc. Prof. SAITO, Kenji
Assoc. Prof. SEKI, Tetsuo
Assoc. Prof. NAGAOKA, Kenichi
Asst. Prof. TSUJIMURA, Toru

Asst. Prof. NAKANO, Haruhisa
Asst. Prof. MAKINO, Ryohhei
Asst. Prof. KAMIO, Shuji
Asst. Prof. IKEDA, Katsunori
Asst. Prof. KISAKI, Masashi
Asst. Prof. TAKAHASHI, Hiromi
Asst. Prof. SEKI, Ryosuke
Asst. Prof. FUJIWARA, Yutaka
Asst. Prof. NUGA, Hideo
Asst. Prof. YANAI, Ryohma

Device Engineering and Applied Physics Research Division

Prof. MITO, Toshiyuki (Director)
Prof. TAKAHATA, Kazuya
Prof. IMAGAWA, Shinsaku
Prof. YANAGI, Nagato
Prof. NISHIMURA, Kiyohiko
Assoc. Prof. IWAMOTO, Akifumi
Assoc. Prof. HAMAGUCHI, Shinji
Assoc. Prof. CHIKARAIISHI, Hirotaka
Assoc. Prof. TAKAYAMA, Sadatsugu
Assoc. Prof. TANAKA, Masahiro
Assoc. Prof. SAZE, Takuya
Asst. Prof. TAKADA, Suguru
Asst. Prof. OBANA, Tetsuhiro
Asst. Prof. KOBAYASHI, Makoto

Fusion Systems Research Division

Prof. MURAKAMI, Izumi (Director)
Prof. MUROGA, Takeo
Prof. MIYAZAWA, Jun-ichi
Prof. HIROOKA, Yoshihiko
Prof. NISHIMURA, Arata
Prof. MASUZAKI, Suguru
Prof. NAGASAKA, Takuya
Assoc. Prof. TANAKA, Teruya
Assoc. Prof. TAMURA, Hitoshi
Assoc. Prof. HISHINUMA, Yoshimitsu
Assoc. Prof. KATO, Daiji
Assoc. Prof. TOKITANI, Masayuki
Asst. Prof. GOTO, Takuya
Asst. Prof. YAGI, Juro
Asst. Prof. ASHIKAWA, Naoko
Asst. Prof. NOTO, Hiroyuki
Asst. Prof. SAKAUE, Hiroyuki
Asst. Prof. HAMAJI, Yukinori
Specially Asst. Prof. YAJIMA, Miyuki

Fusion Theory and Simulation Research Division

Prof. TODO, Yasushi (Director)
Prof. SUGAMA, Hideo
Prof. NAKAJIMA, Noriyoshi
Prof. ICHIGUCHI, Katsuji
Prof. ITOH, Kimitaka
Prof. YOKOYAMA, Masayuki
Assoc. Prof. MIZUGUCHI, Naoki
Assoc. Prof. TODA, Shin-ichiro
Assoc. Prof. SATAKE, Shinsuke
Assoc. Prof. KANNO, Ryutaro
Assoc. Prof. SUZUKI, Yasuhiro
Assoc. Prof. NUNAMI, Masanori
Asst. Prof. YAMAGISHI, Osamu
Asst. Prof. NAKATA, Motoki
Asst. Prof. WANG, Hao
Asst. Prof. KAWAMURA, Gakushi
Asst. Prof. SATO, Masahiko
Asst. Prof. YAMAGUCHI, Hiroyuki

Fundamental Physics Simulation Research Division

Prof. ISHIGURO, Seiji (Director)
Prof. HORIUCHI, Ritoku
Prof. MIURA, Hideaki
Prof. NAKAMURA, Hiroaki
Prof. SAKAGAMI, Hitoshi
Assoc. Prof. OHTANI, Hiroaki
Assoc. Prof. ITO, Atsushi M.
Assoc. Prof. TOIDA, Mieko
Assoc. Prof. USAMI, Shunsuke
Asst. Prof. HASEGAWA, Hiroki
Asst. Prof. MORITAKA, Toseo
Asst. Prof. ITO, Atsushi
Asst. Prof. TAKAYAMA, Arimichi

Rokkasho Research Center

Prof. NAKAJIMA, Noriyoshi (Director, Additional Post)
Prof. NISHIMURA, Arata (Additional Post)
Asst. Prof. SATO, Masahiko (Additional Post)

Project

Large Helical Device Project

Prof. MORISAKI, Tomohiro (Executive Director (on Science))
Prof. OSAKABE, Masaki (Executive Director (on Device))

Numerical Simulation Reactor Research Project

Prof. SUGAMA, Hideo (Executive Director)

Fusion Engineering Research Project

Prof. MUROGA, Takeo (Executive Director)
Prof. YANAGI, Nagato (Executive Director)

Research Enhancement Strategy Office

Prof. MUROGA, Takeo (Director)
 Specially Appointed Prof. MATSUOKA, Keisuke
 Specially Appointed Prof. OKAMURA, Shoichi
 Assoc. Prof. KASAHARA, Hiroshi

Division of Health and Safety Promotion

Prof. NISHIMURA, Kiyohiko (Division Director)

Division for Deuterium Experiments Management

Prof. OSAKABE, Masaki (Division Director)

Division of Information and Communication Systems

Prof. ISHIGURO, Seiji (Division Director)
 Assoc. Prof. YAMAMOTO, Takashi

Division of External Affairs

Prof. TAKAHATA, Kazuya (Division Director)

Fusion Science Archives

Prof. KUBO, Shin (Director)

Library

Prof. MURAKAMI, Izumi (Director)

※ This list was compiled as of March 31, 2019

Guest Professor

Prof. GAIGALAS, Gediminas	Vilnius University	May 7, 2018-June 7, 2018
Prof. VLADIMIR, Alimov	National Research Nuclear University	May 14, 2018- Nov. 9, 2018
Prof. COOPER, Wilfred Anthony	Swiss Federal Institute of Technology in Lausanne	May 1, 2018-Oct. 31, 2018
Prof. TSISAR, Valentyn	KIT, Karlsruher Institut für Technologie	Oct. 1, 2018-Mar. 1, 2019
Prof. SERGEEV, Valdimir	Peter the Great St. Petersburg Polytechnic University	Sept. 29, 2018-Dec. 1, 2018
Prof. SLEZAK, Ondrej	Czech Academy of Sciences	Sept. 26, 2018-Oct. 31, 2018
Prof. TOKAR, Mikhail Zelmanovitsch	Jülich Research Centre	Jan. 6, 2019-Apr. 6, 2019
Prof. LI, Bowen	Lanzhou University	Jan. 15, 2019-Feb. 15, 2019
Prof. O'SULLIVAN, Gerard Daniel	University College Dublin, UCD	Jan. 15, 2019-Feb. 22, 2019
Prof. WANG, Weixing	Princeton Plasma Physics Lab	Mar. 22, 2019- Apr. 21, 2019

COE Research Fellows

ZHOU, Qilai
 TERASAKI, Yoshiro
 YONEDA, Ryota
 BO, Huang

Research Fellow (Science research)

(none)

Research Fellow (Industrial-Academic coordination)

(none)

JSPS Research Fellow

(none)

Department of Administration

NISHIYAMA, Kazunori Department Director

General Affairs Division

TAKEUCHI, Shohji Director
ICHIOKA, Akihiro Senior Advisor
ARAI, Masanori Chief/General Affairs Section
SHIMIZU, Kazuma Chief/Planning and Evaluation Section
MAEDA, Yoshikazu Chief/Employee Section
SUGIMOTO, Michiyasu Chief/Personnel and Payroll Section
TAKAHASHI, Nobuhiro Chief/Communications and Public Affairs Section

Financial Affairs Division

NISHIYAMA Kazunori Director (Additional Post)
TSUDA, Makoto Deputy Director
IKEDA, Katsumi Specialist
KAWAI, Sanae Chief/Financial Planning Section
IWASHIMA, Itsuki Chief/Accounts and Properties Administration Section
FUJII, Kazuki Chief/Audit Section
FUKUOKA, Miwa Chief/Contracts Section
MATSUBARA, Tomohisa Chief/Procurement Section
TSUDA, Makoto Leader/Purchase Validation Section (Additional Post)

Research Support Division

KUWABARA, Hiroaki Director
TERUMOTO, Naoki Deputy Director
FUKAYA, Yosuke Chief/Research Support Section
SOGA, Shihoko Chief/International Collaboration Section
URUSHIHARA, Satona Chief/Graduate Student Affairs Section
OHTA, Masako Chief/Academic Information Section
TERUMOTO, Naoki Leader/Visitor Center (Additional Post)
KONDO, Takahiko Chief/Visitor Center

Facilities and Safety Management Division

KAWASE, Yasuaki Director
NITTA, Haruki Senior Specialist.
NITTA, Haruki Chief/Facilities Section (Additional Post)
MIYATA, Kazuaki Chief/Equipment Section

Department of Engineering and Technical Services

KOBAYASHI, Sakuji Department Director

HAYASHI, Hiromi Deputy Department Director

Fabrication Technology Division

BABA, Tomosumi Director
KATOH, Akemi Chief/Parts and Material Section
ITO, Yasuhiko Chief/Electronic Engineering Section
OKADA, Kohji Chief/Mechanical Engineering Section
SEKIGUCHI, Haruo Chief/Device Maintenance Engineering Section

Device Technology Division

HAYASHI, Hiromi Director
TSUCHIBUSHI, Yasuyuki Chief/Device System Engineering Section
SUZUKI, Naoyuki Chief/Vacuum Engineering Section
YASUI, Koji Chief/Power Supply Engineering Section
MURASE, Takanori Chief/Experimental Application Engineering Section

Plasma Heating Technology Division

KONDO, Tomoki Director
MIZUNO, Yoshinori Chief/Heating System Engineering Section
SATO, Mamoru Chief/Particle Heating Engineering Section
ITO, Satoshi Chief/Electron Heating Engineering Section
NOMURA, Goro Chief/Ion Heating Engineering Section

Diagnostics Technology Division

HAYASHI, Hiroshi Director
SHIBUYA, Masayuki Chief/Radiation Measurement System Engineering Section
KOBUCHI, Takashi Chief/Experimental Radiation Measurement Engineering Section
YOKOTA, Mitsuhiro Chief/Environmental Radiation Measurement Engineering Section
OHSUNA, Masaki Chief/Radiation Measurement Device Control Engineering Section

Control Technology Division

MORIUCHI, Sadatomo Director
TAKAMI, Shigeyuki Chief/Control System Engineering Section
INOUE, Tomoyuki Chief/Information Infrastructure Engineering Section
OBA, Koki Chief/Low Temperature Control Engineering Section
OGAWA, Hideki Chief/Control Information Engineering Section

※ This list was compiled as of March 31, 2019

APPENDIX 5. List of Publications I (NIFS Reports)

- NIFS-PROC-113 Edited by Koichi Takaki and Tetsuo Ozaki
Pulsed Power and High-Density Plasma and Applications
Feb. 6, 2019
- NIFS-PROC-112 Edited by E. Kikutani (KEK) and S. Kubo (NIFS)
Proceedings of the meetings on Archives in Fields of Natural Sciences in FY 2017
Oct. 16, 2018
- NIFS-PROC-111 Edited by Liqun HU, Shigeru MORITA and Yeong-Kook OH
Proceeding of A3 Foresight Program Seminar on Critical Physics Issues Specific to Steady State Sustainment
of High- Performance Plasmas 12–15 December, 2017, Chongqing, China
June 11, 2018
- NIFS-MEMO-85 Radiation Control Office/Division of Health and Promotion National Institute for Fusion Science
Report on Administrative Work for Radiation Safety From April 2017 to March 2018
Jan. 28, 2019
- NIFS-MEMO-84 T. Yamamoto and members of information Network Task Group
The Division of Information and Communication Systems, National Institute for Fusion Science
Construction of the Campus Information Network with Information Security Measures on NIFS
Oct. 05, 2018
- NIFS-MEMO-83 Kazuyoshi Yoshimura
Nonlinear Wave Propagations in Binary-Gas Mixture
May 14, 2018

※ This list was compiled as of March 31, 2019

APPENDIX 6. List of Publications II (Journals, etc.)

- 1 Akata N., Iwata C., Miyake H., Tanaka M.
Expiratory Testing as a Simple and Effective Bioassay Method for Screening Workers for Tritium Exposure in Fusion Test Facilities
Plasma and Fusion Research 13 Regular Issue 1305076
- 2 Akata N., Kakiuchi H., Shima N., Tamari T., Kovacs T.
Determination of Non-Exchangeable Organically Bound Tritium concentration in reference material of pine needles (NIST 1575a)
Journal of Radioanalytical and Nuclear Chemistry 319 3 1359-1363
- 3 Akata N., Kakiuchi H., Tanaka M., Shima N., Shiroma Y., Tokonami S., Hosoda M., Ishikawa Y., Furukawa M., Sanada T.
Development of rapid sampling system of atmospheric water vapor for tritium measurement
Plasma and Fusion Research 13 Special Issue 2 3405064
- 4 Auriemma F., Lopez-Bruna D., Lorenzini R., Momo B., Predebon I., Suzuki Y., Lopez-Fraguas A., Narushima Y., Sattin F., Terranova D., Zhang Y.
A novel approach to studying transport in plasmas with magnetic islands
Nuclear Fusion 58 9 96037
- 5 Bando T., Ohdachi S., Isobe M., Suzuki Y., Toi K., Nagaoka K., Takahashi H., Seki R., Du X., Ogawa K., Ido T., Shimizu A., Ozaki T., LHD experiment group.
Excitation of helically-trapped-energetic-ion driven resistive interchange modes with intense deuterium beam injection and enhanced effect on beam ions/bulk plasmas of LHD
Nuclear Fusion 58 8 82025
- 6 Bando T., Ohdachi S., Zhou R., Zhong G., Yi Y., Hu L., Ling B.
Experimental examination of a method to estimate temporal effect by neutrons and γ -rays on scintillation light in scintillator-based soft x-ray diagnostic of experimental advanced superconducting tokamak and large helical device
Review of Scientific Instruments 90 1 13507
- 7 Berkel M., Kobayashi T., Vandersteen G., Zwart H., Igami H., Kubo S., Tamura N., Tsuchiya H., Baar M.
Heat flux reconstruction and effective diffusion estimation from perturbative experiments using advanced filtering and confidence analysis
Nuclear Fusion 58 96036 96036
- 8 Bierwage A., Shinohara K., Todo Y., Aiba N., Ishikawa M., Matsunaga G., Takechi M., Yagi M.
Simulations tackle abrupt massive migrations of energetic beam ions in a tokamak plasma
Nature Communications 9 3282
- 9 Bussiahn R., Tamura N., McCarthy K., Burhenn R., Hayashi H., Laube R., Klinger T., LHD Experimental Group.
Tracer-Encapsulated Solid Pellet (TESPEL) Injection System for Wendelstein 7-X
Review of Scientific Instruments 89 10 10K112
- 10 Chikada T., Fujita H., Engels J., Houben A., Mochizuki J., Horikoshi S., Matsunaga M., Tokitani M., Hishinuma Y., Kondo S., Yabuuchi K., Schwarz-selinger T., Terai T., Oya Y.
Deuterium permeation behavior and its iron-ion irradiation effect in yttrium oxide coating deposited by magnetron sputtering
Journal of Nuclear Materials 511 560-566
- 11 Chikada T., Fujita H., Tokitani M., Hishinuma Y., Terai T., Oya Y.
Deuterium permeation through monoclinic erbium oxide coating
Fusion Engineering and Design 133 121-124
- 12 Chikada T., Kimura K., Mochizuki J., Horikoshi S., Matsunaga M., Fujita H., Okitsu K., Tanaka T., Hishinuma Y., Sakamoto Y., Someya Y., Nakamura H.
Surface oxidation effect on deuterium permeation in reduced activation ferritic/martensitic steel F82H for DEMO application
Fusion Engineering and Design 146 Part A 450-454

- 13 Chikaraishi H.
Dc Power system for LHD Superconducting Coils
Journal of the Cryogenic Society of Japan 53 3 122-129
- 14 Dai S., Oishi T., Kawamura G., Kobayashi M., Morita S., Feng Y., Wang D.
Three-dimensional simulations of edge impurity flow obtained by the vacuum ultraviolet emission diagnostics in the Large Helical Device with EMC3-EIRENE
Nuclear Fusion 58 9 96024
- 15 Emika A., Terasaka K., Yoshimura S., Aramaki M., Tanaka M.
Observation of Axial Neutral-Gas Flow Reversal in an ECR Plasma
Plasma and Fusion Research 14 Regular Issue 1201066
- 16 Emoto M., Nakanishi H., Yoshida M., Ohsuna M., Ogawa H., Imazu S., Maeno H., Ito T., Yokota M., Nonomura M.
Inter-Application Communication during LHD Consecutive Short Pulse Discharge Experiment
Fusion Engineering and Design 129 190-195
- 17 Emoto M., Suzuki C., Yokoyama M., Yoshinuma M., Seki R., Ida K.
Improvement of Automatic Physics Data Analysis Environment for the LHD Experiment
Fusion Science and Technology 74 1-2 161-166
- 18 Fox W., Wilder F., Eriksson S., Jara-almonte J., Pucci F., Yoo J., Ji H., Yamada M., Ergun R., Oieroset M., Phan T.
Energy Conversion by Parallel Electric Fields During Guide Field Reconnection in Scaled Laboratory and Space Experiments
Geophysical Research Letters 45 12 12677-12684
- 19 Fujii K., Yamada I., Hasuo M.
Machine Learning of Noise in LHD Thomson Scattering System
Fusion Science and Technology 74 1-2 57-64
- 20 Fujita H., Chikada T., Mochizuki J., Horikoshi S., Matsunaga M., Tanaka T., Terai T.
Deuterium permeation through metals under γ -ray irradiation
Fusion Engineering and Design 133 95-98
- 21 Fujita H., Mochizuki J., Horikoshi S., Matsunaga M., Tanaka T., Terai T., Oya Y., Chikada T.
The effect of γ -ray irradiation on deuterium permeation through reduced activation ferritic steel and erbium oxide coating
Nuclear Materials and Energy 17 78-82
- 22 Fujiwara S., Nakamura H., Li H., Miyanishi H., Mizuguchi T., Yasunaga T., Otsuka T., Hatano Y., Saito S.
Computational strategy for studying structural change of tritium-substituted macromolecules by a beta decay to helium-3
Journal of Advanced Simulation in Science and Engineering 6 1 94-99
- 23 Fujiwara S., Yoshiki I., Tsutsui T., Mizuguchi T., Hashimoto M., Tamura Y., Nakamura H.
Dissipative Particle Dynamics Simulation for Self-Assembly of Symmetric Bolaamphiphilic Molecules in Solution
Plasma and Fusion Research 13 Special Issue 2 3401095
- 24 Furukawa M., Watanabe T., Morrison P., Ichiguchi K.
Calculation of large-aspect-ratio tokamak and toroidally-averaged stellarator equilibria of high-beta reduced magnetohydrodynamics via simulated annealing
Physics of Plasmas 25 8 82506
- 25 Goto Y., Kubo S., Tsujimura T.
Development of the Grating Mirror for the High Power Transmission System and its General Theory
Plasma and Fusion Research 13 Special Issue 2 3405089
- 26 Haba Y., Nagaoka K., Tsumori K., Kisaki M., Nakano H., Ikeda K., Fujiwara Y., Kamio S., Yoshimura S., Osakabe M.
Development of a dual beamlet monitor system for negative ion beam measurements
Review of Scientific Instruments 89 12 123303
- 27 Hamaguchi S., Imagawa S., Obana T., Yanagi N., Mito T.
Operations of the Helium Subcooling System for the LHD Helical Coils during Ten Plasma Experimental Campaigns
Plasma and Fusion Research 13 Special Issue 2 3405057

- 28 Hamaji Y., Tokitani M., Kreter A., Sakamoto R., Sagara A., Tamura H., Masuzaki S.
Influence of Thermal Shocks on the He Induced Surface Morphology on Tungsten
Nuclear Materials and Energy 18 321-325
- 29 Horikoshi S., Matsunaga M., Mochizuki J., Fujita H., Hishinuma Y., Oya Y., Chikada T.
Microstructure change and deuterium permeation behavior of ceramic-metal multi-layer coatings after immersion in liquid lithium-lead alloy
Nuclear Materials and Energy 16 66-70
- 30 Horiuchi R.
The Role of Magnetic Islands in Collisionless Driven Reconnection: A Kinetic Approach to Multi-Scale Phenomena
Plasma 1 1 68-77
- 31 Horiuchi R., Moritaka T., Usami S.
PIC simulation study of merging processes of two spheromak-like plasmoids
Plasma and Fusion Research 13 Special Issue 2 3403035
- 32 Ida K.
Pioneering work before becoming mainstream research
AIP conference proceedings 1933 1 20001
- 33 Ida K., Kobayashi T., Ono M., Evans T., McKee G., Austin M.
Hysteresis relation between turbulence and temperature modulation during the heat pulse propagation into a magnetic island in DIII-D
Physical Review Letters 120 24 245001
- 34 Ida K., Kobayashi T., Tokuzawa T., Akiyama T., Tanaka H., Yoshinuma M., Itoh K.
Exhaust of turbulence cloud at the tongue shaped deformation event
Nuclear Fusion 58 11 112008
- 35 Ido T.
Period doubling bifurcation of geodesic acoustic mode in high temperature plasmas
Parity 34 1 29
- 36 Ikeda K., Tsumori K., Kasaki M., Nakano H., Nagaoka K., Osakabe M., Kamio S., Fujiwara Y., Haba Y., Takeiri Y.
First Results of Deuterium Beam Operation on Neutral Beam Injectors in the Large Helical Device
AIP conference proceedings 2011 60002
- 37 Imagawa S.
Study on wind-react-transfer method for helical coils wound from Nb₃Sn cable-in-conduit conductors
Plasma and Fusion Research 13 Special Issue 2 3405027
- 38 Imagawa S., Kajitani H., Obana T., Takada S., Hamaguchi S., Chikaraishi H., Takahata K., Matsui K., Hemmi T., Koizumi N.
Test of ITER-TF Joint Samples with NIFS Test Facilities
IEEE Transactions on Applied Superconductivity 28 3
- 39 Isobe M., Ogawa K., Nishitani T., Miyake H., Kobuchi T., Pu N., Kawase H., Takada E., Tanaka T., Li S., Yoshihashi S., Uritani A., Jo J., Murakami S., Osakabe M., LHD experiment group.
Neutron Diagnostics in the Large Helical Device
IEEE Transactions on Plasma Science 46 6 2050-2058
- 40 Isobe M., Ogawa K., Nishitani T., Pu N., Kawase H., Seki R., Nuga H., Takada E., Murakami S., Suzuki Y., Yokoyama M., Osakabe M., LHD experiment group.
Fusion neutron production with deuterium neutral beam injection and enhancement of energetic-particle physics study in the Large Helical Device
Nuclear Fusion 58 8 82004
- 41 Ito A.
Special Topic Articles: Fuzzy Nano-Structures on Metal Surfaces Induced by Exposure to Helium Plasma 4. Numerical Identification for Physical Mechanism of Fuzzy Nanostructure Growth on Material Surface
Journal of Plasma and Fusion Research 94 6 306-310

- 42 Ito A., Nakajima N.
Erratum: "Analytic Equilibria of High-Beta Tokamaks with Toroidal and Poloidal Flows and Pressure Anisotropy Associated with Parallel Heat Flux" [J. Phys. Soc. Jpn. 82, 064502 (2013)]
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