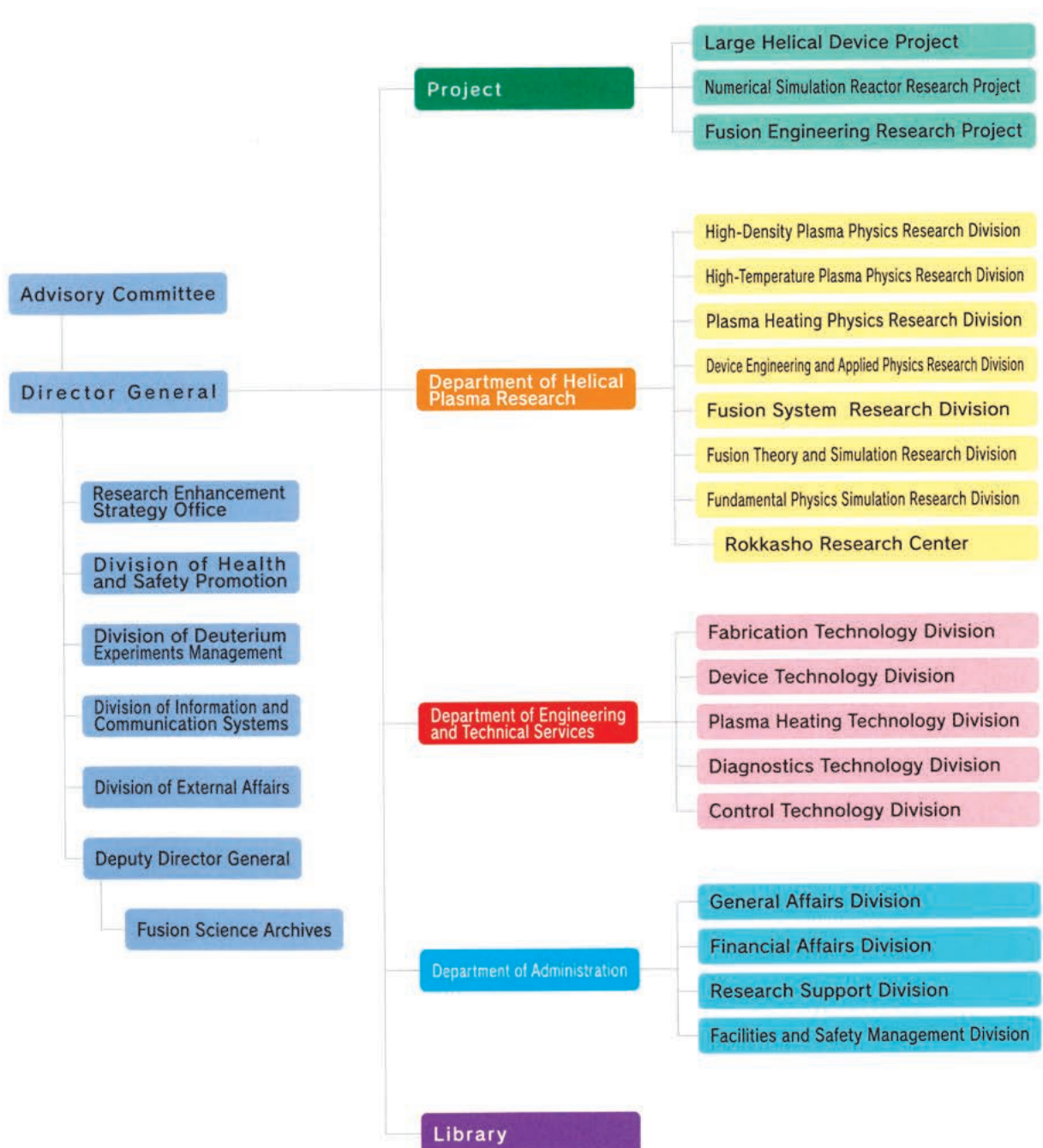


APPENDIX

APPENDIX 1. Organization of the Institute

NATIONAL INSTITUTE for FUSION SCIENCE

Organization



APPENDIX 2. Members of Committees

Advisory Committee

UEDA, Yoshio	Professor Graduate School of Engineering, Osaka University
OHNO, Noriyasu	Professor Graduate School of Engineering, Nagoya University
OZAWA, Tohru	Professor Department of Applied Physics, Waseda University
KANEKO, Toshiro	Professor Graduate School of Engineering, Tohoku University
KISHIMOTO, Yasuaki	Professor Graduate School of Energy Science, Kyoto University
KURIHARA, Kenichi	Managing Director, Fusion Energy Research and Development Directorate, National Institutes for Quantum and Radiological Science and Technology
FUJISAWA, Akihide	Professor Research Institute for Applied Mechanics, Kyushu University
MATSUOKA, Ayako	Professor Graduate School of Science, Kyoto University
YAMADA, Hiroshi	Professor Graduate School of Frontier Sciences, The University of Tokyo
YONEDA, Hitoki	Professor Institute for laser science, The University of Electro-Communications
WATANABE, Tomo-hiko	Professor Department of Physics, Nagoya University

※ This list was compiled as of March 31, 2022

APPENDIX 3. Advisors, Fellows, and Professors Emeritus

Professors Emeritus

ICHIKAWA, Yoshihiko (1993)
MIZUNO, Yukio (1994)
FUJITA, Junji (1996)
KURODA, Tsutomu (1997)
AMANO, Tsuneo (1998)
MOMOTA, Hiromu (1998)
IIYOSHI, Atsuo (1999)
HATORI, Tadatsugu (1999)
TANAHASHI, Shugo (2000)
KAWAMURA, Takaichi (2000)
SATO, Tetsuya (2001)
FUJIWARA, Masami (2002)
KAMIMURA, Tetsuo (2003)
HAMADA, Yasuji (2007)
KATO, Takako (2007)
NODA, Nobuaki (2008)
WATARI, Tetsuo (2008)
MOTOJIMA, Osamu (2009)
SATO, Kohnosuke (2010)
OHYABU, Nobuyoshi (2010)
MATSUOKA, Keisuke (2010)
TOI, Kazuo (2012)
NARIHARA, Kazumichi (2012)
KUMAZAWA, Ryuhei (2012)

UDA, Tatsuhiko (2012)
SATO, Motoyasu (2012)
YAMAZAKI, Kozo (2013)
KAWAHATA, Kazuo (2013)
OKAMURA, Shoichi (2014)
KOMORI, Akio (2015)
SUDO, Shigeru (2015)
SKORIC, Milos (2015)
MUTO, Takashi (2016)
NAGAYAMA, Yoshio (2017)
NAKAMURA, Yukio (2017)
SAGARA, Akio (2017)
ITOH, Kimitaka (2017)
HORIUCHI, Ritoku (2017)
HIROOKA, Yoshihiko (2018)
MORITA, Shigeru (2019)
NISHIMURA, Arata (2019)
KUBO, Shin (2020)
MITO, Toshiyuki (2020)
NISHIMURA, Kiyohiko (2020)
ISHIGURO, Seiji (2021)
MUROGA, Takeo (2021)
NAJIMA, Noriyoshi (2021)
SHIMOZUMA, Takashi (2021)

※ This list was compiled as of March 31, 2022

APPENDIX 4. List of Staff

Director General

YOSHIDA, Zensho

Deputy Director General

MUROGA, Takeo

Department of Helical Plasma Research

Prof. IDA, Katsumi (Director)

High-Density Plasma Physics Research Division

Prof. MORISAKI, Tomohiro (Director)
Prof. WATANABE, Kiyomasa
Prof. SAKAMOTO, Ryuichi
Prof. MORISAKI, Tomohiro
Prof. OHDACHI, Satoshi
Assoc. Prof. YOSHIMURA, Shinji
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. OISHI, Tetsutaro
Asst. Prof. NISHIMURA, Shin
Asst. Prof. HAYASHI, Yuki
Asst. Prof. KAWAMOTO, Yasuko
Asst. Prof. GOTO, Yuki
Specially Asst. Prof. OHTSUBO, Yohko

High-Temperature Plasma Physics Research Division

Prof. IDA, Katsumi (Director)
Prof. SAKAKIBARA, Satoru
Prof. TANAKA, Kenji
Prof. ISOBE, Mitsutaka
Prof. PETERSON, Byron Jay
Assoc. Prof. GOTO, Motoshi
Assoc. Prof. TAMURA, Naoki
Assoc. Prof. YAMADA, Ichihiko
Assoc. Prof. YASUHARA, Ryo
Assoc. Prof. OZAKI, Tetsuo
Assoc. Prof. NAKANISHI, Hideya

Assoc. Prof. OGAWA, Kunihiro
Asst. Prof. KOBAYASHI, Tatsuya
Asst. Prof. MUTO, Sadatsugu
Asst. Prof. FUNABA, Hisamichi
Asst. Prof. YOSHINUMA, Mikirou
Asst. Prof. SUZUKI, Chihiro
Asst. Prof. SHIMIZU, Akihiro
Asst. Prof. EMOTO, Masahiko
Asst. Prof. MUKAI, Kiyofumi
Asst. Prof. UEHARA, Hiyori
Asst. SHI, Quan

Plasma Heating Physics Research Division

Prof. NAGAOKA, Kenichi (Director)
Prof. SIMOZUMA, Takashi
Prof. OSAKABE, Masaki
Prof. TSUMORI, Katsuyoshi
Assoc. Prof. YOSHIMURA, Yasuo
Assoc. Prof. NISHIURA, Masaki
Assoc. Prof. KASAHARA, Hiroshi
Assoc. Prof. IGAMI, Hiroe
Assoc. Prof. TAKAHASHI, Hiromi

Assoc. Prof. SAITO, Kenji
Assoc. Prof. SEKI, Tetsuo
Assoc. Prof. NAKANO, Haruhisa
Asst. Prof. IKEDA, Katsunori
Asst. Prof. SEKI, Ryosuke
Asst. Prof. NUGA, Hideo
Asst. Prof. YANAI, Ryohma
Asst. Prof. KENMOCHI, Naoki

Device Engineering and Applied Physics Research Division

Prof. MITO, Toshiyuki (Director)
Prof. TAKAHATA, Kazuya
Prof. IMAGAWA, Shinsaku
Prof. YANAGI, Nagato
Prof. NISHIMURA, Kiyohiko
Prof. HIRANO, Naoki
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
Asst. Prof. ONODERA, Yuta

Fusion Systems Research Division

Prof. MURAKAMI, Izumi (Director)
Prof. MUROGA, Takeo
Prof. MIYAZAWA, Junichi
Prof. MASUZAKI, Suguru
Prof. NAGASAKA, Takuya
Assoc. Prof. TANAKA, Teruya
Assoc. Prof. TAMURA, Hitoshi
Assoc. Prof. HISHINUMA, Yoshimitsu
Assoc. Prof. ASHIKAWA, Naoko
Assoc. Prof. KATO, Daiji
Assoc. Prof. TOKITANI, Masayuki
Asst. Prof. GOTO, Takuya
Asst. Prof. NOTO, Hiroyuki
Asst. Prof. SAKAUE, Hiroyuki
Asst. Prof. HAMAJI, Yukinori
Asst. Prof. YAJIMA, Miyuki
Asst. Prof. KAWATE, Tomoko
Asst. Prof. SHEN, Jingjie

Fusion Theory and Simulation Research Division

Prof. TODO, Yasushi (Director)
Prof. SUGAMA, Hideo
Prof. ICHIGUCHI, Katsuji
Prof. YOKOYAMA, Masayuki
Assoc. Prof. MIZUGUCHI, Naoki
Assoc. Prof. TODA, Shinichiro
Assoc. Prof. SATAKE, Shinsuke
Assoc. Prof. KANNO, Ryutaro
Assoc. Prof. NUNAMI, Masanori
Assoc. Prof. NAKATA, Motoki
Asst. Prof. YAMAGISHI, Osamu
Asst. Prof. ISHIZAKI, Ryuichi
Asst. Prof. MATSUOKA, Seikichi
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. MIURA, Hideaki
Prof. NAKAMURA, Hiroaki
Prof. SAKAGAMI, Hitoshi
Assoc. Prof. USAMI, Shunsuke
Assoc. Prof. OHTANI, Hiroaki
Assoc. Prof. ITO, Atsushi M.
Assoc. Prof. TOIDA, Mieko
Assoc. Prof. YAMAMOTO, Takashi
Asst. Prof. HASEGAWA, Hiroki
Asst. Prof. MORITAKA, Toseo
Asst. Prof. ITO, Atsushi
Asst. Prof. TAKAYAMA, Arimichi

Rokkasho Research Center

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

Project

Large Helical Device Project

Prof. IDA, Katsumi
Prof. OSAKABE, Masaki

Numerical Simulation Reactor Research Project

Prof. SUGAMA, Hideo

Fusion Engineering Research Project

Prof. MUROGA, Takeo
Prof. YANAGI, Nagato

Research Enhancement Strategy Office

Prof. YOSHIDA, Zensho (Director)
Specially Appointed Prof. OKAMURA, Shoichi
Specially Appointed Prof. CARR, Stephen
Specially Appointed Prof. YAJI, Kentaro
Specially Appointed Prof. MITO, Toshiyuki

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)

Division of External Affairs

Prof. TAKAHATA, Kazuya (Division Director)

Fusion Science Archives

Prof. IMAGAWA, Shinsaku (Director)

Library

Prof. MURAKAMI, Izumi (Director)

※ This list was compiled as of March 31, 2022

Guest Professor

(None)

COE Research Fellows

IDOUAKASS, Malik
ADULSIRISWAD, Panith
SHI, Quan
Priti

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

NISHIO, Naoaki Director
ICHIOKA, Akihiro Senior Advisor
ARAI, Masanori Chief/General Affairs Section
SHIMIZU, Kazuma Chief/Planning and Evaluation Section
UESUGI, Kohtaro Chief/Employee Section
MURASE, Itaru Chief/Personnel and Payroll Section
MATSUBARA, Tomohisa Chief/Communications and Public Affairs Section

Financial Affairs Division

SHIMIZU, Naomi Director
OHBA, Ryo Deputy Director
HIBINO, Atsushi Chief/Financial Planning Section
KONDO, Takahiko Chief/Accounts and Properties Administration Section
FUKUOKA, Miwa Chief/Audit Section
IWASHIMA, Itsuki Chief/Procurement Section

Research Support Division

KUMAZAWA, Shuhei Director
URUSHIHARA, Satona Deputy Director
SUZUKI, Takayuki Chief/Research Support Section
SOGA, Shihoko Chief/International Collaboration Section
KAWAI, Sanae Chief/Graduate Student Affairs Section
OHTA, Masako Chief/Academic Information Section
URUSHIHARA, Satona Leader/Visitor Center (Additional Post)
HAYASHI, Tomomi Chief/Visitor Center

Facilities and Safety Management Division

SHIRAHIGE, Tamio Director
WAKASHIMA, Masahiro Senior Specialist.
MIYATA, Kazuaki Chief/Facilities Section (Additional Post)
IKEDA, Katsumi Chief/Equipment Section

※ This list was compiled as of March 31, 2022

APPENDIX 5. List of Publications I (NIFS Reports)

NIFS-1129

To achieve both economic activity and suppression of COVID-19
—Based on the analogy between the SIR model and the controlled fusion—

MITARAI Osamu and YANAGI Nagato

May 23, 2021 (In Japanese)

NIFS-MEMO-88

Report on Administrative Work for Radiation Safety
From April 2019 to March 2020

Radiation Control Office/Division of Health and Safety Promotion
National Institute for Fusion Science

Mar. 5, 2021 (In Japanese)

NIFS-MEMO-89

Report on Administrative Work for Radiation Safety
From April 2020 to March 2021

Radiation Control Office/Division of Health and Safety Promotion
National Institute for Fusion Science

March 08, 2022 (In Japanese)

NIFS-PROC-121

Frontier of Advanced Pulsed Power Technology and its Application to Plasma and Particle Beam

Edited by Hiroaki Ito and Tetsuo Ozaki

Nov. 08, 2021

NIFS-PROC-122

NIFS-SWJTU JOINT PROJECT FOR CFQS
—PHYSICS AND ENGINEERING DESIGN—
VER. 4.1 2022. JAN.

CFQS Team
National Institute for Fusion Science, National Institutes of Natural Sciences
Institute of Fusion Science, School of Physical Science and Technology,
Southwest Jiaotong University
Hefei Keye Electro Physical Equipment Manufacturing Co. Ltd.

Feb. 10, 2022

※ This list was compiled as of March 31, 2022

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

1. Adulsiriswad P., Todo Y., Kado S., Yamamoto S., Kobayashi S., Ohshima S., Okada H., Minami T., Nakamura Y., Ishizawa A., Konoshima S., Mizuuchi T., Nagasaki K.
Numerical investigation into the peripheral energetic-particle-driven MHD modes in Heliotron J with free boundary hybrid simulation
Nuclear Fusion 61 11 116065 -2021
2. Akata N., Kakiuchi H., Tanaka M., Ishikawa Y., Kurita N., Furukawa M., Hegedüs M., Kovács T., Gusyev M., Sanada T.
Isotope and chemical composition of monthly precipitation collected at Sapporo, northern part of Japan during 2015-2019
Fusion Engineering and Design 168 112434 -2021
3. Arellano F., Yoshinuma M., Ida K.
Charge exchange spectroscopy using spatial heterodyne spectrometer in the large helical device
Review of Scientific Instruments 93 3 33503 -2022
4. Chen H., Yao W., Uehara H., Yasuhara R.
Actively Q-switched Tb:LiYF₄ green lasers
Optics Letters 46 6 -2021
5. Du X., Zeeland M., Heidbrink W., Gonzalez-martin J., Lin D., Collins C., Austin M., McKee G., Yan Z., Todo Y.
Visualization of Fast Ion Phase-Space Flow Driven by Alfvén Instabilities
Physical Review Letters 127 23 235002 -2021
6. Era S., Kato D., Sakaue H., Umezaki T., Nakamura N., Murakami I.
Emission Lines in 290–360 nm of Highly Charged Tungsten Ions W²⁰⁺–W²⁹⁺
Atoms 9 63 63 -2021
7. Feng S., Kajita S., Yasuhara R., Imazawa R., Tokitani M.
Optical Properties of Fiberform Nanostructured Tungsten in the Infrared Wavelength Range
Plasma and Fusion Research 16 Regular Issue 1206098 -2021
8. Fujita K., Satake S., Nunami M., Garcia-Regana J., Velasco J., Calvo I.
Study on impurity hole plasmas by global neoclassical simulation
Nuclear Fusion 61 8 86025 -2021
9. Fujiwara S., Hatano Y., Nakamura H.
Mechanism of DNA Damage by Tritium – Fluorescence Microscope Observation of Double-Strand Breaks and Simulation
BUTSURI 77 1 35-41 -2022
10. Fujiwara S., Kawanami R., Li H., Nakamura H., Omata K.
A theoretical approach to structural change of a polymer induced by beta decays of substituted tritium based on the linear response theory
Journal of Advanced Simulation in Science and Engineering 8 2 211-222 -2021
11. Fukushima J., Tanaka M., Takayama S., Hirotsugu T.
Kinetics of CO₂ splitting by microwave irradiation using honeycomb-like pellets of Fe₃O₄/FeO
Chemical Engineering Journal 428 131087 -2022
12. Goto T., Ichiguchi K., Tamura H., Miyazawa J., Satake S., Yamaguchi H., Yanagi N.
Effect of the Pitch Modulation of Helical Coils on the Core Plasma Performance of the LHD-Type Helical Fusion Reactor
Plasma and Fusion Research 16 Regular Issue 1405085 -2021
13. Goto T., Tanaka T., Tamura H., Miyazawa J., Iwamoto A., Yanagi N., Fujita T., Kodama R., Mori Y.
Feasibility study of tokamak, helical and laser reactors as affordable fusion volumetric neutron sources
Nuclear Fusion 61 12 126047 -2021

14. Goto Y., Kubo S., Tsujimura T.
Coherent Cyclotron Emission with a Helical Wavefront from Multi-electron System Accelerated by the Circularly Polarized Wave
New Journal of Physics 23 63021 -2021
15. Goto Y., Kubo S., Tsujimura T., Kobayashi T.
Direct Measurement of the Millimeter Wave Phase Singularity with Helical Wavefront using Heterodyne Detection System at Two Spatial Points
Plasma and Fusion Research 17 Special Issue 1 2401007 -2022
16. Goto Y., Tokuzawa T., Kuwahara D., Ichinose K., Tsuchiya H., Nishiura M., Shimizu T., Kubo S., Yamada I.
Development of the Q-band ECE Imaging system in the large helical device
Journal of Instrumentation 17 C01016 -2022
17. Goya K., Koyama Y., Nishijima Y., Tokita S., Yasuhara R., Uehara H.
A fluoride fiber optics in-line sensor for mid-IR spectroscopy based on a side-polished structure
Sensors and Actuators B: Chemical 351 130904 -2022
18. Haba Y., Aramaki M., Tsumori K., Osakabe M., Ikeda K., Nakano H., Nagaoka K.
Abundance ratio of multiple velocity distribution components in a single negative ion beamlet produced by a cesium-seeded negative ion source
AIP Advances 12 3 35223 -2022
19. Hamaguchi S., Moriuchi S., Noguchi H., Tanoue H., Mito T.
Reliable long-term operation of superconducting bus lines for the LHD
Journal of Physics: Conference Series 1857 12014 -2021
20. Hasegawa H., Tanaka H., Ishiguro S.
Linear Analysis of Cross-field Dynamics with Feedback Instability on Detached Divertor Plasmas
Nuclear Fusion 61 12 126005 -2021
21. Hata M., Sano T., Sentoku Y., Nagatomo H., Sakagami H.
Pulse duration constraint of whistler waves in magnetized dense plasma
Physical Review E 104 3 35205 -2021
22. Hayashi Y., Kobayashi M., Mukai K., Masuzaki S., Murase T., The LHD Experimental Group.
Divertor heat load distribution measurements with infrared thermography in the LHD helical divertor
Fusion Engineering and Design 165 112235 -2021
23. Hayashi Y., Masuzaki S., Motojima G., Hwangbo D., Fujiwara Y., The LHD Experimental Group.
Observation of arc trails with significant damage due to glow discharge wall conditioning in the Large Helical Device
Plasma and Fusion Research 16 Regular Issue 1202061 -2021
24. Hirano N., Nakamura M., Kawamura K., Ishii Y., Iwatani Y., Nagaya S., Watanabe T.
Research and Development of SMES for Instantaneous Voltage Drop Compensation
Journal of the Cryogenic Society of Japan 56 5 262-268 -2021
25. Hishinuma Y., Shimada Y., Hata S., Tanaka T., Kikuchi A.
Superconducting Properties and Microstructure of In-situ Cu Addition Low Activation MgB2 Multifilamentary Wires Using Different Boron-11 Isotope Powders
Journal of the Cryogenic Society of Japan 57 1 31-38 -2022
26. Hu K., Koyamada K., Ohtani H., Goto T., Miyazawa J.
Visualization of plasma shape in the LHD-type helical fusion reactor, FFHR, by a deep learning technique
Journal of Visualization 24 6 1141-1154 -2021
27. Ichiguchi K., Suzuki Y., Todo Y., Sakakibara S., Ida K., Takemura Y., Sato M., Sugiyama L., Carreras B.
Non-resonant global mode in LHD partial collapse with net toroidal current
Nuclear Fusion 61 12 126056 -2021
28. Ichiki R., Komatsu T., Yakushiji K., Tachibana K., Furuki T., Kanazawa S., Yoshimura S.
Ignition-area extension of dielectric barrier discharge under high temperature
Results in Physics 29 104791 -2021

29. Ida K.
Non-local transport nature revealed by the research in transient phenomena of toroidal plasma
Reviews of Modern Plasma Physics 6 1 2 -2022
30. Ida K., Mcdermott R., Holland C., Choi M., Yu L., Kobayashi T., Kwon J., Kosuga Y.
Joint meeting of 9th Asia Pacific-Transport Working Group (APTWG) & EU-US Transport Task Force (TTF) workshop
Nuclear Fusion 62 3 37001 -2022
31. Idouakass M., Todo Y., Wang H., Wang J., Seki R., Sato M.
Precession drift reversal and rapid transport of trapped energetic particles due to an energetic particle driven instability in the Large Helical Device
Physics of Plasmas 28 8 80701 -2021
32. Igami H., Yanai R., Ito S., Yoshimura Y., Kubo S., Takahashi H., Shimozuma T., Tsujimura T., Mizuno Y.
Development of the molybdenum millimeter wave target tile for ECRH antenna alignment after the evacuation in LHD
Plasma and Fusion Research 16 Special Issue 1 2405066 -2021
33. Ikeda K., Kisaki M., Nakano H., Tsumori K., Nagaoka K., Fujiwara Y., Masaki S., Rattanawongnara E., Osakabe M.
Validation of the Distribution of Stripping Loss Neutrals in the Accelerator of the Negative Ion Source
AIP conference proceedings 2373 1 60001 -2021
34. Imagawa S., Chikaraishi H., Hamaguchi S., Obana T., Iwamoto A., Yanagi N., Takahata K., Mito T.
Effect of Direction of External Magnetic Field on Minimum Propagation Current of A Composite Conductor for LHD Helical Coils
IEEE Transactions on Applied Superconductivity 31 5 3059606 -2021
35. Imagawa S., Kajitani H., Obana T., Takada S., Hamaguchi S., Chikaraishi H., Onodera Y., Takahata K., Matsui K., Koizumi N.
Measurement of Decay Time Constant of Shielding Current in ITER-TF Joint Samples
Journal of Physics: Conference Series 1857 12013 -2021
36. Imagawa S., Kajitani H., Obana T., Takada S., Hamaguchi S., Chikaraishi H., Onodera Y., Takahata K., Matsui K., Koizumi N.
Simulation of Decay of Shielding Currents in ITER-TF Joint Samples
Plasma and Fusion Research 17 Special Issue 1 2405021 -2022
37. Ishihara H., Kuzmin A., Kobayashi M., Shikama T., Sawada K., Saito S., Nakamura H., Fujii K., Hasuo M., The LHD Experimental Group.
Ro-vibrational population distribution in the ground state of hydrogen isotopologues in LHD peripheral plasmas deduced from emission spectroscopy
Journal of Quantitative Spectroscopy and Radiative Transfer 267 107592 -2021
38. Islam M., Ishiguro S., Hasegawa H., Pianpanit T.
Study of energy loss processes during hydrogen gas puffing by the PIC simulation
Nuclear Materials and Energy 27 100995 -2021
39. Isobe M., Ogawa K., Sangaroon S., Kamio S., Fujiwara Y., Osakabe M.
Recent development of neutron and energetic-particle diagnostics for LHD deuterium discharges
Journal of Instrumentation 17 C03036 -2022
40. Isobe M., Ogawa K., Sangaroon S., Zhong G., Fan T.
Recent Progress of Neutron Spectrometer Development for LHD Deuterium Plasmas
Plasma and Fusion Research 17 Special Issue 1 2402008 -2022
41. Iwamoto A., Kodama R.
Core size effects of laser fusion subcritical research reactor for fusion engineering research
Nuclear Fusion 61 11 116075 -2021
42. Iwamoto A., Mori Y., Shigemori K.
Progress of Laser Fusion -Fuel gain achievement and industrial applications- 4 Grappling with high repetition operation
The Journal of The Institute of Electrical Engineers of Japan 141 9 563-566 -2021

43. Iwano K., Iwamoto A., Yamanoi K., Arikawa Y., Nagatomo H., Nakai M., Norimatsu T.
Preliminary Cryogenic Layering by the Infrared Heating Method Modified with Cone Temperature Control for the Polystyrene Shell FIREX Target
Plasma and Fusion Research 16 Regular Issue 1404099 -2021
44. Iwano K., Zhang J., Iwamoto A., Iwasa Y., Shigemori K., Hara M., Hatano Y., Norimatsu T., Yamanoi K.
Refractive index measurements of solid deuterium-tritium
Scientific Reports 12 2223 -2022
45. Kambara N., Kawate T., Oishi T., Kawamoto Y., Sakaue H., Kato D., Nakamura N., Hara H., Murakami I.
Evaluation of Fe XIV Intensity Ratio for Electron Density Diagnostics by Laboratory Measurements
Atoms 9 3 60 -2021
46. Kamio S., Moiseenko V., Kovtun Y., Kasahara H., Saito K., Seki R., Kanda M., Nomura G., Seki T., Takemura Y., Wauters T., Brakel R., Dinklage A., Hartmann D., Laqua H., Stange T., Alonso A., Lazerson S., Kazakov Y., Ongena J., Thomsen H., Fuchert G., Garkusha I.
First experiments on plasma production using field-aligned ICRF fast wave antennas in the Large Helical Device
Nuclear Fusion 61 11 114004 -2021
47. Kamio S., Saito K., Seki R., Kasahara H., Kanda M., Nomura G., Seki T.
Study of ion cyclotron range of frequencies heating characteristics in deuterium plasma in the Large Helical Device
Nuclear Fusion 62 1 16004 -2022
48. Kamitani A., Takayama T., Saitoh A., Nakamura H.
Linear-System Solver for EFG-Type Saddle-Point Problem without Using QR Decomposition
Plasma and Fusion Research 17 Special Issue 1 2403014 -2022
49. Kato D., Sakaue H., Murakami I., Goto M., Oishi T., Tamura N., Funaba H., Morita S.
Assessment of W density in LHD core plasmas using visible forbidden lines of highly charged W ions
Nuclear Fusion 61 11 116008 -2021
50. Kawamoto Y., Morita S., Goto M., Oishi T.
Qualitative Improvement of Zeff Diagnostic Based on Visible Bremsstrahlung Profile Measurement by Changing Observation Cross Section in LHD
Plasma and Fusion Research 16 Special Issue 1 2402072 -2021
51. Kawamoto Y., Ogawa K., Isobe M., Sangaroon S., Zhong G., Osakabe M.
Initial Measurement of Doppler-Shifted DD Neutron Energy Spectrum using CLYC7 Scintillator in LHD
Plasma and Fusion Research 16 Regular Issue 1202108 -2021
52. Kawamura G., Hasuo M., Saito S., Nakamura H., Sawada K., Kobayashi M., Hanada K., Shikama T., Fujii K., Kuzmin A., Yoneda N., Goto M.
Special Topic Articles: The New Phase in Transport Studies of Hydrogen Atoms and Molecules in Magnetic Confinement Fusion Devices
Journal of Plasma and Fusion Research 98 1 3-36 -2022
53. Kenmochi N., Yokota Y., Nishiura M., Saitoh H., Sato N., Nakamura K., Mori T., Ueda K., Yoshida Z.
Inward diffusion driven by low frequency fluctuations in self-organizing magnetospheric plasma
Nuclear Fusion 62 2 26041 -2022
54. Kimura K., Matsuura H., Kawamoto Y., Oishi T., Goto M., Ogawa K., Nishitani T., Isobe M., Osakabe M.
Fast deuteron diagnostics using visible light spectra of ^3He produced by deuteron–deuteron reaction in deuterium plasmas
Review of Scientific Instruments 92 5 53524 -2021
55. Kobayashi M., Kawamura G., Suzuki Y., Tanaka H., Ohno N.
Special Topic Articles: Three-Dimensional Effects in the Edge Plasma Region of Fusion Devices
Journal of Plasma and Fusion Research 97 8 433-473 -2021
56. Kobayashi M., Shimada M., Chase T., Nobuta Y., Hatano Y., Oya Y.
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※ This list was compiled as of March 31, 2022