

JOURNAL OF PLASMA AND FUSION RESEARCH

The Journal of the Japan Society of Plasma Science and Nuclear Fusion Research

Vol. 78, No.7, July 2002

Rapid Communications

- δf Simulation and the Radial Electric Field
..... OKAMOTO Masao, NAKAJIMA Noriyoshi, SATAKE Shinsuke and WANG Weixing 611
- Plasmon Linac SAITO Naoko and OGATA Atsushi 613

Commentary

- Electromagnetic Phenomenon in Superconducting Magnet for Fusion Facility (1)
– Forced Flow Superconducting Magnet – HAMADA Kazuya and KOIZUMI Norikiyo 616

Special Topic Article

- Ultra-Sensitive Elemental Analysis Using Plasmas
1. Introduction OKINO Akitoshi and HIRATA Takafumi 625
 2. Trace Elemental Analysis Using Plasmas SAWATARI Hideyuki 627
 3. For Understanding an Inductively Coupled Plasma Mass Spectrometer SAKATA Kenichi 634
 4. Application of Inductively Coupled Plasma Mass Spectrometry to the Study
of Environmental Radioactivity YOSHIDA Satoshi 641
 5. Speciation of Arsenic Compounds in Biological Samples by High Performance Liquid Chromatography
– Inductively Coupled Plasma Mass Spectrometry System KAISE Toshikazu 646
 6. Age Determination of Meteorites Using Radioactive Nuclides TANIMIZU Masaharu 653
 7. Application to Criminal Investigation SUZUKI Yasuhiro 659

Lecture Note

- Relativistic Plasma Physics
7. Relativistic Particle Acceleration as Origin of Cosmic Ray HOSHINO Masahiro 668
 8. Ultra-Relativistic Plasma and Gamma-Ray Bursts KOBAYASHI Shiho 678

Contributed Paper

- Energy Distribution of D³He Fusion-Produced Protons and Direct Energy Conversion
..... SATO Kunihiko and KATAYAMA Hideaki 685

Introduction of Research Group

- Superconductivity Application Technology Group, Power and Industrial Systems Research and
Development Center, Toshiba Corporation 691

News of Related Fields 692

Plasma and Fusion Calendar 696

Announcement 699

List of Newly Arrived Publications, NIFS 705



Published Monthly by

The Japan Society of Plasma Science and Nuclear Fusion Research

2-20-20, Nishiki, Naka-ku, Nagoya 460-0003, Japan

Tel 052-231-4535, Fax 052-231-7557, E-mail:jspf@nifs.ac.jp, URL:http://jspf.nifs.ac.jp/