

Fusion Science and Technology

CONTENTS / JANUARY 2004—VOL. 45, NO. 1

TECHNICAL PAPERS

- 1 Surface Fluctuation Analysis for Turbulent Liquid Sheets / *Samuel G. Durbin II, Timothy P. Koehler, Jefferey J. R. Reperant, Minami Yoda, Said I. Abdel-Khalik, Dennis L. Sadowski*
- 11 Tritiated Dust Levitation by Beta-Induced Static Charge / *C. H. Skinner, C. A. Gentile, L. Cieberta, S. Langish*
- 15 Development of a Robust Quasi-Poloidal Compact Stellarator / *Dennis J. Strickler, Steven P. Hirshman, Donald A. Spong, Michael J. Cole, James F. Lyon, Bradley E. Nelson, David E. Williamson, Andrew S. Ware*
- 27 Experimental and Theoretical Characterization of the Actively Controlled Thermal Environment in a Cryogenic Hohlraum / *J. D. Moody, Richard Allan London, Jorge J. Sanchez*
- 33 Extraction of Hydrogen from Water Vapor by Hydrogen Pump Using Ceramic Protonic Conductor / *Yoshinori Kawamura, Satoshi Konishi, Masataka Nishi*
- 41 A 70-GHz Electron Cyclotron Resonance Heating System for Heliotron J / *Hiroyuki Shidara, Kazunobu Nagasaki, Kinzo Sakamoto, Hidetoshi Yukimoto, Masahiko Nakasuga, Fumimichi Sano, Katsumi Kondo, Tohru Mizuuchi, Hiroyuki Okada, Sakae Besshou, Shinji Kobayashi, Yoshito Manabe, Hayato Kawazome, Tasho Takamiya, Yoshinori Ohno, Hiroyasu Kubo, Yusuke Nishioka, Masao Iriguchi, Masashi Kaneko, Koichi Takahashi, Yohei Fukagawa, Yuya Morita, Masaki Yamada, Shingo Nakazawa, Shintaro Tsuboi, Shigeru Nishio, Victor Orlov, Alexander Pavelyev, Alexander Tolkachev, Victor Tribaldos, Tokuhiro Obiki*

SUPPLEMENTAL PAPERS FROM "FIFTEENTH TOPICAL MEETING ON THE TECHNOLOGY OF FUSION ENERGY"

- 51 Nuclear Design and Analysis of the Fusion Transmutation of Waste Reactor / *E. A. Hoffman, W. M. Stacey*
- 55 A Superconducting Tokamak Fusion Transmutation of Waste Reactor / *A. N. Mauer, W. M. Stacey, J. Mandrekas, E. A. Hoffman*
- 60 Moving-Surface Plasma-Facing Components for Particle Control in Steady State Magnetic Fusion Devices / *Yoshi Hirooka, Hoju Fukushima, Noriyasu Ohno, Shuichi Takamura, Masahiro Nishikawa*
- 65 JT-60U Plasma Current Measurement by an Optical Current Transformer / *Takashi Arai, Tomokazu Nishiyama, Junichi Yagyu, Satoshi Kasai, Isamu Sone, Mitsushi Abe, Naoyuki Miya*