

Fusion Science and Technology

CONTENTS / FEBRUARY 2006—VOL. 49, NO. 2

SPECIAL ISSUE ON JFT-2M TOKAMAK

Guest Editor: Yoshinori Kusama

- iii Comments / *Nermin A. Uckan*
- v Preface / *Hiromasa Ninomiya, Masaaki Kuriyama*

TECHNICAL PAPERS

- 89 JFT-2M Program / *Y. Kusama, M. Yamamoto, JFT-2M Group*
- 96 Studies of Improved Confinement in JFT-2M / *Y. Miura, M. Mori, T. Shoji, H. Matsumoto, K. Kamiya, K. Ida, S. Kasai*
- 122 Studies of Radial Electric Field Formation and Its Effect on Fluctuations and Transport Barriers in the JFT-2M Tokamak / *K. Ida, Y. Miura, T. Ido, Y. Nagashima, K. Shinohara*
- 139 Heating, Current Drive, and Advanced Plasma Control in JFT-2M / *K. Hoshino, T. Yamamoto, H. Tamai, K. Ohasa, H. Kawashima, Y. Miura, T. Ogawa, T. Shoji, T. Shibata, K. Kikuchi, M. Sawahata, K. Takahashi*
- 168 Study of SOL/Divertor Plasmas in JFT-2M / *H. Kawashima, S. Sengoku, K. Uehara, H. Tamai, T. Shoji, H. Ogawa, T. Shibata, M. Yamamoto, Y. Miura, Y. Kusama, H. Kimura, H. Amemiya, Y. Sadamoto, Y. Nagashima*
- 187 Ripple Reduction with Ferritic Insert in JFT-2M / *K. Shinohara, M. Sato, H. Kawashima, K. Tsuzuki, S. Suzuki, K. Urata, N. Isei, T. Tani, K. Kikuchi, T. Shibata, H. Kimura, Y. Miura, Y. Kusama, M. Yamamoto, JFT-2M Group*
- 197 Characteristics of Plasma Operation with the Ferritic Inside Wall and Its Compatibility with High-Performance Plasmas in JFT-2M / *K. Tsuzuki, H. Kimura, Y. Kusama, M. Sato, H. Kawashima, K. Kamiya, K. Shinohara, H. Ogawa, K. Uehara, G. Kurita, S. Kasai, K. Hoshino, N. Isei, Y. Miura, M. Yamamoto, K. Kikuchi, T. Shibata, M. Bakhtiari, T. Hino, Y. Hirohata, Y. Yamauchi, K. Yamaguchi, H. Tsutsui, R. Shimada, H. Amemiya, Y. Nagashima, T. Ido, Y. Hamada*
- 209 CT Injection Experiment in JFT-2M / *H. Ogawa, T. Ogawa, K. Tsuzuki, H. Kawashima, S. Kasai, Y. Kashiwa, K. Hasegawa, S. Suzuki, T. Shibata, Y. Miura, Y. Kusama, H. Kimura, N. Fukumoto, M. Nagata, T. Uyama, S. Yatsu, H. Niimi*
- 225 Plasma Diagnostics in JFT-2M / *S. Kasai, K. Kamiya, K. Shinohara, H. Kawashima, H. Ogawa, K. Uehara, Y. Miura, F. Okano, S. Suzuki, K. Hoshino, K. Tsuzuki, M. Sato, K. Oasa, Y. Kusama, T. Yamauchi, Y. Nagashima, K. Ida, S. Hidekuma, T. Ido, Y. Hamada, A. Nishizawa, Y. Kawasumi, Y. Uesugi, S. Okajima, K. Kawahata, A. Ejiri, H. Amemiya, Y. Sadamoto*

(Continued)

CONTENTS / FEBRUARY 2006—VOL. 49, NO. 2

(Continued)

- 241** Engineering Design, Installation, and Conditioning of Ferritic Steel Plates/Wall
for AMTEX in JFT-2M / *M. Yamamoto, T. Shibata, K. Tsuzuki, M. Sato,
H. Kimura, F. Okano, H. Kawashima, S. Suzuki, K. Shinohara, JFT-2M Group,
K. Urata*