

# **Fusion** technology

CONTENTS / SEPTEMBER 1995 –VOL. 28, NO. 2

## **FUSION NEUTRONICS INTEGRAL EXPERIMENTS – PART II**

241 Comments / *George Miley*

### **TECHNICAL PAPERS**

- 243 Nuclear Analysis of Integral Experiments on a Li<sub>2</sub>O Test Assembly with Local Heterogeneities Utilizing a 14-MeV Neutron Source / *M. Z. Youssef, A. Kumar, M. A. Abdou, Y. Watanabe, M. Nakagawa, K. Kosako, T. Mori, Y. Oyama, C. Konno, Y. Ikeda, H. Maekawa, T. Nakamura*
- 273 Neutronics Integral Experiments of Simulated Fusion Reactor Blanket with Various Beryllium Configurations Using Deuterium-Tritium Neutrons / *Chikara Konno, Yukio Oyama, Yujiro Ikeda, Seiya Yamaguchi, Koichi Tsuda, Kazuaki Kosako, Hiroshi Maekawa, Masayuki Nakagawa, Takamasa Mori, Tomoo Nakamura, Mohamed A. Abdou, Edgar F. Bennett, Karl G. Porges, Mahmoud Z. Youssef*
- 296 A Summary of Benchmark Experiments for Simulation of Fusion Reactors Using an Annular Blanket with a Line Deuterium-Tritium Source / *H. Maekawa, M. A. Abdou, Y. Oyama, C. Konno, F. Maekawa, Y. Ikeda, K. Kosako, T. Nakamura, M. Z. Youssef, A. Kumar, E. F. Bennett*
- 305 Concept and Characteristics of a Simulated Line Source for Annular Blanket Experiments Using an Accelerator-Based Deuterium-Tritium Neutron Source / *Y. Oyama, C. Konno, Y. Ikeda, K. Kosako, H. Maekawa, T. Nakamura, M. A. Abdou, E. F. Bennett, A. Kumar, Y. Watanabe, M. Z. Youssef*
- 320 The Nuclear Analysis of an Annular Li<sub>2</sub>O Blanket System Surrounding an Artificially Simulated 14-MeV Line Source and Comparison of Calculations to Measurements / *M. Z. Youssef, M. A. Abdou, A. Kumar, Li Zhang, K. Kosako, Y. Oyama, F. Maekawa, Y. Ikeda, C. Konno, H. Maekawa*
- 347 Neutronics Integral Experiments of Annular Blanket System Simulating Tokamak Reactor Configuration / *Chikara Konno, Yukio Oyama, Fujio Maekawa, Yujiro Ikeda, Kazuaki Kosako, Hiroshi Maekawa, Mohamed A. Abdou, Edgar F. Bennett, Anil Kumar, Mahmoud Z. Youssef*
- 366 Fusion Integral Experiments and Analysis and the Determination of Design Safety Factors – I: Methodology / *M. Z. Youssef, A. Kumar, M. A. Abdou, Y. Oyama, H. Maekawa*
- 388 Fusion Integral Experiments and Analysis and the Determination of Design Safety Factors – II: Application to the Prediction Uncertainty of Tritium Production Rate from the U.S. DOE/JAERI Collaborative Program on Fusion Blanket Neutronics / *M. Z. Youssef, A. Kumar, M. A. Abdou, Y. Oyama, C. Konno, F. Maekawa, Y. Ikeda, K. Kosako, M. Nakagawa, T. Mori, H. Maekawa*

