Commentary
Theoretical Problems in the Analysis of Flowing Plasma Equilibrium and Stability …………… YOSHIDA Zensho 209

Special Topic Article
The Outline and the Prospect of Broader Approach Activities
1. Introduction ……………………………………………………………………………………. OKUMURA Yoshikazu 220
2. Outline of Broader Approach Activities …………………………………………………… OKUMURA Yoshikazu and OHIRA Shigeru 221
3. Engineering Validation and Engineering Design Activity of
International Fusion Material Irradiation Facility (IFMIF/EVEDA)
……………………………… KIMURA Haruyuki, SUGIMOTO Masayoshi, MAEHARA Sunao, TAKAHASHI Hiroki,
OHIRA Shigeru, KUBO Takashi, WAKAI Eiichi, NAKAMURA Hiroo and TAKEUCHI Hiroshi 223
4. International Fusion Energy Research Centre (IFERC) Project
……………… ARAKI Masanori, HAYASHI Kimio, TOBITA Kenji, NISHITANI Takeo, TANIGAWA Hiroyasu,
NOZAWA Takashi, YAMANISHI Toshihiko, NAKAMICHI Masaru, HOSHINO Tsuyoshi,
OZEKI Takahisa and ISHII Yasutomo 231
5. Satellite Tokamak Programme ………………………………………………………………. KAMADA Yutaka 240
6. Conclusion …………………………………………………………………………………… OHIRA Shigeru 247

Lecture Note
R&D Activities for 30 Years on Handling Technology of a Large Amount of Tritium and Future Subjects
3. Accomplishments of Large Amount of Tritium Handling Technology (2)
–For Establishment of a Fusion Fuel Cycle System; Progress of US-Japan Collaboration–
……………………………… KAWAMURA Yoshinori, NAKAMURA Hirohumi, IWAI Yasunori and OKUNO Kenji 250

PFR Abstracts ……………………………………………………………………………………………………… 257
Information ……………………………………………………………………………………………………… 258
Plasma & Fusion Calendar …………………………………………………………………………………… 259
Announcement …………………………………………………………………………………………………… 261

Cover
The Monte Carlo Particle and Heavy Ion Transport code (PHITS) was used for diagnosing the focusing and defocusing action of a triplet of permanent magnet quadrupoles on laser-accelerated proton bunches of short duration. The code predicts reasonably well the observed transverse beam profile as measured with a CR-39 track detector demonstrating that PHITS can be used to simulate proton bunch transport by conventional ion optics in the laser-driven case. (Hironao SAKAKI et al., Plasma and Fusion Research Vol.5, 009 (2010) /PFR/)