Commentary
Atomic-Scale Understanding of Tritium Behavior in Solid Breeding Materials

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6. Radiation Damage on Recent Fusion Reactor Candidate Materials

Lecture Note
Particle Acceleration Caused by Collisionless Shock Waves
1. Overview of Cosmic Rays and Nonlinear Magnetosonic Waves
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Present Status of Investigations on ITER Neutron Streaming

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Cover
Main part of TRAPSE test facility (a, b) and principle of the test (c). Superconducting cables located in effective magnetic field of 50 mm in diameter, are tested under a comparative condition to DEMO, i.e. 15 T in magnetic field, 10 kA in current (500 kA in ITER conductor corresponding value), and 40 MPa in maximum compressive stress. Cables were reinforced by ice (d), whose thermal conductivity is as high as diamond at cryogenic temperature, and the effectiveness was proven in this study, demonstrating no degradation under 40 MPa in stress. (Kazutaka SEO et al., Plasma and Fusion Research Vol.3, 042 (2008). http://www.jspfor.jp/PFR/)

Published Monthly by
The Japan Society of Plasma Science and Nuclear Fusion Research
3-1, Uchiyama, Chikusa-ku, Nagoya 464-0075, Japan
Tel 052-735-3185, Fax 052-735-3485, E-mail: plasma@jsfor.jp, URL: http://www.jspfor.jp/