JOURNAL OF PLASMA AND FUSION RESEARCH

The Journal of the Japan Society of Plasma Science and Nuclear Fusion Research
Vol. 87, No.8, August 2011

Cover

The pellet ablatant forms a high density plasmoid which extends along magnetic field line when a solid hydrogen pellet is injected into a high temperature plasma. The breakaway phenomena of the pellet ablatant and non-diffusive cross-field transport of the breakaway plasmoid are discovered by using a fast imaging camera with stereoscopic observation capability. These observations suggest that there is a difference between the positions of solid hydrogen pellet ablation and effective particle deposition. The plasmoid behavior plays an important role in the pellet fueling. (Ryuichi SAKAMOTO and Hiroshi YAMADA, Plasma and Fusion Research Vol. 6, 1402085 (2011) http://www.jspf.or.jp/PFR/)

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