

JOURNAL OF PLASMA AND FUSION RESEARCH

The Journal of the Japan Society of Plasma Science and Nuclear Fusion Research

Vol. 96, No. 5, May 2020

Commentary

Assessment of Fusion Energy Introduction under Global Energy Scenarios GI Keii 217

Project Review

Multi-Ferroc Turbulence in Nonequilibrium Plasmas
..... ITOH Sanae-I, KOSUGA Yusuke, KOBAYASHI Tatsuya, SASAKI Makoto and ITOH Kimitaka 225

Research and Technology Notes

Separation of Fluctuation Component with Singular Spectrum Analysis
..... BANDO Takahiro and OHDACHI Satoshi 262

Research and Technology Notes

A Critical Issue Toward Realization of DEMO Fusion Reactor from the Particle Transport Study
..... MATSUDA Shinzaburo, TSUJI-IIO Shunji, KASHIWAGI Mieko, SAKAMOTO Ryuichi,
SOMEYA Youji and HAYASHI Takumi 267

Saloon

On Establishment of an Outreach Headquarter
..... OGAWA Yuichi, KASADA Ryuta, YOSHIKAWA Naomi, HIGASHIJIMA Satoru and YAJI Kentaro 269

PFR Abstracts 273

Information 274

Announcement 280

Cover

In LHD, unipolar arcing occurred on the surface of a nanostructured tungsten plate sample that was fabricated with a He plasma pre-treatment. Without any transient heat loads, there appeared 18 straight-forward arc trails that was affected by arc current and external magnetic field. Confocal laser microscopy has revealed that those trails were dented compared to the surrounding surface, implying the surface was eroded by the unipolar arcing. (Dogyun HWANGBO *et al.*, Plasma and Fusion Research, Vol. 15, 2402012 (2020) <http://www.jspf.or.jp/>)



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/>