

JOURNAL OF PLASMA AND FUSION RESEARCH

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

Vol. 81, No.2, February 2005

Rapid Communications

- The Configuration Dependence of Ripple Transport in LHD
..... YOKOYAMA Masayuki, WATANABE Kiyomasa and NAKAJIMA Noriyoshi 83

Commentaries

- Meter-Scale Large-Area Plasma Sources for Next-Generation Processes SETSUHARA Yuichi 85
A Short Guide to Langmuir Turbulence: Theory and Experiment
..... ANDO Ritoku, AKIMOTO Kazuhiro and TANIKAWA Takao 94

Lecture Note

- Introduction to Data Acquisition
1. Preface NAKANISHI Hideya 105
2. Let's Design and Construct a Proper Measurement System ITAKURA Akiyosi and HIGAKI Hiroyuki 106
3. Let's Acquire Data! NAKANISHI Hideya and OKUMURA Haruhiko 112

Contributed Paper

- Beam-Self-Trapping Phenomena in an Electron-Beam-Plasma TAKEDA Tsuyoshi and YAMAGIWA Keiichiro 120

News of Related Fields 125

Plasma and Fusion Calendar 131

Announcement 133

List of Newly Arrived Publications, NIFS 135

Cover

Observations of IREB induced electric-field patterns in plasma using the electron-beam shadowgraph technique. The plasma disturbed by the IREB is filled by a number of spherical regions with negative potentials. The typical size of a sphere is strongly dependent on the plasma density. Its diameter is inversely proportional to the square root of the plasma density and a typical value is $\sim 20 \lambda_e$. (p.94 "A Short Guide to Langmuir Turbulence: Theory and Experiment" R. Ando *et al.*)