Rapid Communications

A Shell Model for the Hall MHD System

HORI Dan, FURUKAWA Masaru, OHSAKI Shuichi and YOSHIDA Zen sho

Commentary

Toward Construction of ITER

SHIMOMURA Yasuo

Special Topic Article

Progress of Plasma Control by Use of Radio-Frequencies

1. Controlling Plasma by Use of Radio-Frequencies – the Progress in the Past Decade –

WATARI Tetsuo and TAKASE Yuichi

2. Plasma Profile Control by Using Local Heating and Current Drive with EC Waves

IKEDA Yoshitaka and KUBO Shin

3. Current Profile Control and Application to Advanced Tokamak/Steady State Plasma Operations by Lower Hybrid Waves

IDE Shunsuke

4. Plasma Control Using Ion Cyclotron Range of Frequency Heating

KUMAZAWA Ryuhei

5. Plans and Prospects of RF Heating and Current Drive for ITER

IMAI Tsuyoshi

Contributed Papers

Quasi-Optical Beam Analysis Based on Direct Phase Measurement at Low Power Level

IDE Hiroshi, SHIMOZUMA Takashi, SHAPIRO Michael, TEMKIN Richard, NOTAKE Takashi, ITO Satoshi, KUBO Shin and OHKUBO Kunizo

Alignment Method of ECH Transmission Lines Based on the Moment and Phase Retrieval Method Using IR Images

SHIMOZUMA Takashi, IDE Hiroshi, SHAPIRO Michael, TEMKIN Richard, ITO Satoshi, NOTAKE Takashi, KUBO Shin, YOSHIMURA Yusuo, KOBA YASHI Sakuji, MIZUNO Yoshinori, TAKITA Yasuyuki and OHKUBO Kunizo

Lecture Note

Introduction to Data Acquisition

OHDACHI Satoshi and GOTO Motoshi

Contributed Paper

Efficient Radio Frequency Inductive Discharges in Near Atmospheric Pressure Using Immittance Conversion Topology

RAZZAK M. Abdur, TAKAMURA Shuichi, UESUGI Yoshikiko and OHNO Noriyasu

R&D Activities

Research on Structural Formation and Selection Rules in Turbulent Plasmas

ITOH Sanae-I

News of Related Fields


Plasma and Fusion Calendar


Announcement


Cover

A series of typical CCD camera picture of thermal Ar plasma using conventional series resonance circuit (a) and immittance circuit (b). The injected rf power is about 1.2 kW in the case of series resonance circuit (Fig.a), and about 3.0 kW in the case of immittance circuit (Fig.b). Light emission from thermal Ar plasma is strongly enhanced in the case of immittance circuit. This result contributes to production of thermal plasma with high power efficiency. (p.204 Efficient Radio Frequency Inductive Discharges in Near Atmospheric Pressure, RAZZAK M. Abdur et al)