

# JOURNAL OF PLASMA AND FUSION RESEARCH

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

Vol. 82, No.3, March 2006

## Special Topic Article

Integrated Interconnecting Simulation for Fast Ignition – Multi-Layer Plasma Simulation System FI <sup>3</sup> –	
1. Physical Background of Integrated Fast Ignition Code and Its Future Plan .....	MIMA Kunioki 135
2. Concept of Multilevel Hierarchy Integrated Simulation System FI <sup>3</sup> .....	SAKAGAMI Hitoshi, SAKAGUCHI Tomoya and MIMA Kunioki 137
3. Computational Codes and Numerical Examples	
3.1 Integrated Implosion Code (Radiation Hydrodynamic Code) .....	NAGATOMO Hideo, JOHZAKI Tomoyuki, SUNAHARA Atsushi and MIMA Kunioki 141
3.2 Relativistic Laser-Plasma Interaction ...	NAKAMURA Tatsufumi, SAKAGAMI Hitoshi and MIMA Kunioki 145
3.3 Propagation of High Energy Electrons (Hybrid Simulation Code) .....	TAGUCHI Toshihiro 150
3.4 Heating (Fast Electron Transport Code Based on Fokker-Planck Equation) .....	NAKAO Yasuyuki, YOKOTA Tomohiro and JOHZAKI Tomoyuki 158
4. Implosion and Core Heating Analysis of Cone-Guiding Target with FI <sup>3</sup> Integrated Code System .....	JOHZAKI Tomoyuki, NAGATOMO Hideo and SAKAGAMI Hitoshi 164

## Contributed Paper

Ultra-Wideband Real-Time Data Acquisition in Steady-State Experiments .....	
NAKANISHI Hideya, OHSUNA Masaki, KOJIMA Mamoru, IMAZU Setsuo, NONOMURA Miki, EMOTO Masahiko, OKUMURA Haruhiko, NAGAYAMA Yoshio, KAWAHATA Kazuo and LHD Experimental Group 171	

Mourning .....	178
New Books .....	179
Information .....	180
Plasma and Fusion Calendar .....	182
Articles in PFR .....	184
Announcement .....	184
Errata .....	185

## Cover

A two-dimensional image of LiI line emission taken by a tangentially viewing camera when a sheet-shaped thermal-lithium beam was injected vertically into an LHD plasma. High emission zone of LiI extends along the plasma boundary. Two-dimensional electron density profile is derived from the image without solving a complex inverse problem. (Y. Takahashi *et al.*, Plasma and Fusion Research Vol.1, 013 (2006) March. <http://www.jspf.or.jp/PFR/>)