

JOURNAL OF PLASMA AND FUSION RESEARCH

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

Vol. 88, No.4, April 2012

Prologue	OGAWA Yuichi	209
Contributed Paper		
Highly Sensitive Infrared-Absorption Spectroscopy with a Quantum Cascade Laser	YUMII Takayoshi and KIMURA Noriaki	211
Commentary		
Current-Free Double Layer in Magnetically Expanding RF Plasmas	TAKAHASHI Kazunori, CHARLES Christine and BOSWELL Rod W.	220
Lecture Note		
Research Trends on Biological Effects of Tritium 3. Biological Effects of Tritium from the Cellular and Molecular Aspects	TACHIBANA Akira, KOBAYASHI Junya and TAUCHI Hiroshi	228
PFR Abstracts		236
Information		238
Plasma & Fusion Calendar		243
Announcement		245

Cover

The schematic view of the designed sightlines for the charge exchange recombination spectroscopy (CXRS) in Heliotron J, including the vacuum vessel, the last closed flux surface and magnetic axis. Sightlines are set to be parallel to the magnetic axis to achieve a high spatial resolution. The spatial resolution is $\Delta\langle r/a \rangle \sim 0.05$ for a measurement area of $0.37 < \langle r/a \rangle < 0.79$. Here, $\langle r/a \rangle$ is a normalized minor radius. (Hyunyoung LEE *et al.*, Plasma and Fusion Research Vol.7, 1402019 (2012) <http://www.jspf.or.jp/PFR/>)