

Plasma Physics and Controlled Fusion

Volume 57 Number 5 May 2015

2014 JOINT VARENNA—LAUSANNE INTERNATIONAL WORKSHOP ON THE THEORY OF FUSION PLASMAS (VARENNA, ITALY, 1--5 SEPTEMBER 2014)

PREFACE

- 050301 **2014 Joint Varenna–Lausanne International Workshop on the Theory of Fusion Plasmas (Varenna, Italy, 1–5 September 2014)**
Xavier Garbet and Olivier Sauter

SPECIAL ISSUE PAPERS

- 054001 **Plasma turbulence simulations with X-points using the flux-coordinate independent approach**
F Hariri, P Hill, M Ottaviani and Y Sarazin
- 054002 **Extended MHD simulations of infernal mode dynamics and coupling to tearing modes**
D Brunetti, J P Graves, F D Halpern, J-F Luciani, H Lütjens and W A Cooper
- 054003 **Equivalence of two different approaches to global δf gyrokinetic simulations**
Felix I Parra and Michael Barnes
- 054004 **Solid state plasmas**
Giovanni Manfredi and Jérôme Hurst
- 054005 **Comparison of 3D flux-driven scrape-off layer turbulence simulations with gas-puff imaging of Alcator C-Mod inner-wall limited discharges**
F D Halpern, J L Terry, S J Zweben, B LaBombard, M Podesta and P Ricci
- 054006 **Tokamak equilibria and edge stability when non-axisymmetric fields are applied**
C J Ham, I T Chapman, J Simpson and Y Suzuki
- 054007 **Development of variational guiding center algorithms for parallel calculations in experimental magnetic equilibria**
C Leland Ellison, J M Finn, H Qin and W M Tang
- 054008 **The radial propagation of turbulence in gyro-kinetic toroidal systems**
P Migliano, R Buchholz, S R Grosshauser, W A Hornsby and A G Peeters
- 054009 **Integrated transport simulations of high ion temperature plasmas of LHD**
S Murakami, H Yamaguchi, A Sakai, A Wakasa, A Fukuyama, K Nagaoka, H Takahashi, H Nakano, M Osakabe, K Ida, M Yoshinuma, M Yokoyama and LHD Experiment group
- 054010 **Investigating profile stiffness and critical gradients in shaped TCV discharges using local gyrokinetic simulations of turbulent transport**
G Merlo, S Brunner, O Sauter, Y Camenen, T Görler, F Jenko, A Marinoni, D Told and L Villard
- 054011 **Local and global kinetic stability analysis of Alfvén eigenmodes in the 15 MA ITER scenario**
Ph Lauber
- 054012 **Neoclassical transport in toroidal plasmas with nonaxisymmetric flux surfaces**
E A Belli and J Candy
- 054013 **A hierarchy of electromagnetic gyrokinetic and fluid hybrid models for the simulation of global modes**
M D J Cole, A Mishchenko, A Könies, R Hatzky and R Kleiber
- 054014 **Multi-scale self-organisation of edge plasma turbulent transport in 3D global simulations**
P Tamain, Ph Ghendrih, H Bufferand, G Ciraolo, C Colin, N Fedorczak, N Nace, F Schwander and E Serre
- 054015 **Assessment of the ITER electron cyclotron upper launcher capabilities in view of an optimized design**
L Figini, D Farina, M Henderson, A Mariani, E Poli and G Saibene

(Continued on inside back cover)