

研究発表

(1) 学会誌等

T. Sato, et al. ,
“Kinetic Self-Organization : Creation of Super Ion-Acoustic Double Layer”,
Physics of Plasmas, Vol.2, 1995 (in press).

T. Hayashi et al. ,
“Behavior of Magnetic Islands in 3D MHD Equilibria of Helical Devices”,
Plasma Physics and Controlled Nuclear Fusion Research, 1995 (in press).

B. Dasgupta et al. ,
“Formation of a Field-Reversed Configuration by Coalescence of Spheromaks”,
Fusion Technology, Vol.22, 1995 (in press).

T. Hayashi et al. ,
“Nonlinear Simulations of Deformation and Destruction of Magnetic Surfaces in Helical Devices”,
Fusion Technology, Vol.22, 1995 (in press).

H. Amo et al. ,
“Intermittent Energy Bursts and Recurrent Topological Change of a Twisting Magnetic Flux
Tube”,
Physical Review E, Vol.51, 1995 (in press).

S.P. Zhu et al. ,
“Non-Taylor Magnetohydrodynamic Self-Organization”,
Physical Review E, Vol.51, 1995 (in press).

Y. Todo et al. ,
“Magnetohydrodynamic Vlasov Simulation of the Toroidal Alfvén Eigenmode”,
Physics of Plasmas, Vol.2, 1995 (in press).

A. Kageyama et al. ,
“Computer Simulation of a Magnetohydrodynamic Dynamo II”,
Physics of Plasmas, Vol.2, 1995 (in press).

佐藤哲也、
「プラズマからみた複雑性の科学」、
日本物理学会誌、1995年5月号（印刷中）。

K. Watanabe et al. ,
“Current-profile Flattening and Hot Core Shift due to the Nonlinear Development of Resistive
Kink Mode”,

Nuclear Fusion, Vol.35, 1995 (in press).

A. Bhattacharjee et al. ,

“Theory of Pressure-induced Islands and Self-healing in Three Dimensional Toroidal Magnetohydrodynamic Equilibria”,

Physics of Plasmas, Vol.2, No.3, 883-888, 1995.

T. Hayashi et al. ,

“Evolution of Magnetic Islands in a Helic”,

Physics of Plasmas, Vol.2, No.3, 752-759, 1995.

H. Takamaru et al. ,

“A Self-Consistent Open Boundary Model for Particle Simulation in Plasmas”,

NIFS Report, No.335, February, 1995.

R. V. Reddy et al. ,

“Impulsive Alfvén Coupling between the Fully-Ionized Plasma and the Weakly-Ionized Plasma,”

Journal of the Physical Society of Japan, Vol. 64, No. 1, 124-135, 1995.

T. H. Watanabe et al. ,

“An Advanced Electrostatic Particle Simulation Algorithm for Implicit Time Integration”,

NIFS Report, No.331, January, 1995.

R. Horiuchi et al. ,

“Particle Simulation Study of Driven Magnetic Reconnection in a Collisionless Plasma”,

Physics of Plasmas, Vol.1, No.11, 3587-3597, 1994.

T. Hayashi et al. ,

“Formation and Self-healing of Magnetic Islands in Finite- β Helic Equilibria”,

Physics of Plasmas, Vol.1, No.10, 3262-3268, 1994.

Y. Kondo et al. ,

“Derivations and Comparisons of Three Groups of Self-Organization Theories for Magnetohydrodynamic Plasmas”,

Journal of the Physical Society of Japan, Vol.63, No.4, 1365-1377, 1994.

H. Takamaru et al. ,

“Electron Acceleration by Ion Acoustic Double Layer”,

AIP Conference Proceedings, Vol. 311, 32-43, March, 1994.

Y. Kondo et al. ,

“Dependence of Relaxed States of Magnetohydrodynamic Plasmas on Resistivity Profiles”,

Journal of the Physical Society of Japan, Vol.63, No.2, 546-557, 1994.

T. Watanabe et al. ,

“Comprehensive Simulation Study on Local and Global Development of Auroral Arcs and Field-Aligned Potentials”,

Journal of Geophysical Research, Vol.98, No.A12, 21,391-21,407, 1993.

T. Hayashi et al. ,

“3D MHD Study of Helias and Heliotron”,

Plasma Physics and Controlled Nuclear Fusion Research, Vol. 2, 29-34, 1993.

K. Watanabe et al. ,

“A Triggering Mechanism of Fast Crash in Sawtooth Oscillation”,

Plasma Physics and Controlled Nuclear Fusion Research, Vol. 2, 143-150, 1993.

A. Kageyama et al. ,

“Simulation Study of a Magnetohydrodynamic Dynamo: Convection in a Rotating Spherical Shell,”

Physics of Fluids B, Vol.5, No.8, 2793-2805, 1993.

A. Usadi et al. ,

“A Global Simulation of the Magnetosphere With a Long Tail:Southward and Northward Interplanetary Magnetic Field”,

Journal of Geophysical Research, Vol.98, No. A5, 7503-7517, 1993.

S. V. Bazdenkov et al. ,

“On a Ballistic Method for Double Layer Regeneration in a Vlasov-Poisson Plasma”,

Physics of Fluids B, Vol.5, No.4, 1057-1065, 1993.