

List of Publications

1. Transport driven by G modes and resistive waves based on scale invariance

Journal of the Physical Society of Japan Vol.56, No.3 (1987), pp.973-981

Yagi, M., M. Wakatani and A. Hasegawa.

2. Inter-relation between scale invariance and mixing length theory based on g and rippling mode turbulence transports

Journal of the Physical Society of Japan Vol.57, No.1 (1988), pp.117-124

Yagi, M., M. Wakatani and K. C. Shaing.

3. Stabilization effect of parallel heat conductivity on g mode

Journal of the Physical Society of Japan Vol.58, No.5 (1989), pp.1624-1630

Yagi, M. and M. Wakatani.

4. Ion-temperature-gradient-driven drift mode coupled to the resistive interchange mode in a heliotron/torsatoron

Journal of the Physical Society of Japan Vol.58, No.12 (1989), pp.4265-4268

Yagi, M., M. Wakatani, H. Sugama, B. G. Hong and W. Horton.

5. Transition from resistive-G to η i-driven turbulence in stellarator systems

Phys. Fluids B Vol.3, No.7 (1991), pp.1638-1643

Hong, B., W. Horton, S. Hamaguchi, M. Wakatani, M. Yagi and H. Sugama.

6. Anomalous ion transport of L-mode plasmas in JT-60

Nuclear Fusion Vol.32, No.1 (1992), pp.89-106

Hirayama, T., H. Shirai, M. Yagi, K. Shimizu, Y. Koide, M. Kikuchi and M. Azumi.

7. Ion-temperature-gradient-driven modes in neoclassical regime

Physics of Fluids B Vol.5, No.4 (1993), p.1179-1187

Yagi, M., J. P. Wang, Y. B. Kim and M. Azumi.

8. L-mode confinement model based on transport-MHD theory in tokamaks

Plasma Physics and Controlled Fusion Vol.35, No.5 (1993), pp.543-549

Itoh, K., M. Yagi, S.-I. Itoh, A. Fukuyama and M. Azumi.

9. Theory of pseudoclassical confinement and transition to L-mode

Physics of Fluids B Vol.5, No.9 (1993), pp.3299-3303

Itoh, K., S.-I. Itoh, M. Yagi, A. Fukuyama and M. Azumi.

10. Analysis of the current-diffusive ballooning mode

Physics of Fluids B Vol.5, No.10 (1993), pp.3702-3711

Yagi, M., K. Itoh, S.-I. Itoh, A. Fukuyama and M. Azumi.

11. Prandtl number of toroidal plasmas

Journal of the Physical Society of Japan Vol.62, No.12 (1993), pp.4269-4276

Itoh, K., S.-I. Itoh, A. Fukuyama, M. Yagi and M. Azumi.

12. Current-diffusive ballooning mode in low shear and negative shear regions of tokamaks

Journal of the Physical Society of Japan Vol.63, No.1 (1994), pp.10-13

Yagi, M., K. Itoh, S.-I. Itoh, A. Fukuyama and M. Azumi.

13. Confinement improvement in H-mode-like plasmas in helical systems

Plasma Physics and Controlled Fusion Vol.36, No.1 (1994), pp.123-129

Itoh, K., S.-I. Itoh, A. Fukuyama, H. Sanuki and M. Yagi

14. Self-sustained turbulence and L-mode confinement in toroidal plasmas I

Plasma Physics and Controlled Fusion Vol.36, No.2 (1994), pp.279-306

Itoh, K., S.-I. Itoh, A. Fukuyama, M. Yagi and M. Azumi.

15. Theory of anomalous transport in H-mode plasmas

Physical Review Letter Vol.72, No.8 (Feb. 1994), pp.1200-1203

Itoh, S.-I., K. Itoh, A. Fukuyama and M. Yagi.

16. Partition in power transfer and dissipation rate in self-sustained turbulence

Physics of Plasmas Vol.1, No.5 (1994), pp.1154-1158

Itoh, S.-I., K. Itoh, A. Fukuyama, M. Yagi, M. Azumi and K. Nishikawa.

17. Isotope effect on confinement in DT plasmas

Comments on Plasma Physics and Controlled Fusion Vol.15, No.6 (1994), pp.309-313

Fukuyama, A., K. Itoh, S.-I. Itoh, M. Yagi and M. Azumi.

18. Reduced Braginskii equations

Physics of Plasmas Vol.1, No.7 (1994), pp.2135-2139

Yagi, M. and W. Horton

19. A Theory of Anomalous Transport in the H-mode Plasmas

Plasma Physics and Controlled Fusion Vol.36, Suppl(7)A (1994), pp.A261-A266

Itoh, S.-I., K. Itoh, A. Fukuyama, Y. Miura, M. Yagi and M. Azumi.

20. Self-sustained turbulence and L-mode confinement in toroidal plasmas II

Plasma Physics and Controlled Fusion Vol.36, No.9 (1994), pp.1501-1520

Itoh, K., S.-I. Itoh, A. Fukuyama, M. Yagi and M. Azumi.

21. Theory of Improved Confinement in High- β p Tokamaks

Plasma Physics and Controlled Fusion Vol.36, No.9 (1994), pp.1385-1390

Fukuyama, A., K. Itoh, S.-I. Itoh, M. Yagi and M. Azumi.

22. Theory of Anomalous Transport in Toroidal Plasmas

Transactions of Fusion Technology Vol.27 (Apr., 1995), pp.52-57

Itoh, K., S.-I. Itoh, A. Fukuyama, M. Yagi and H. Sanuki.

23. Transport Simulation on L-mode and Improved Confinement Associated with Current Profile Modification

Plasma Physics and Controlled Fusion Vol. 37, No.6 (1995), pp.611-631

Fukuyama, A., K. Itoh, S.-I. Itoh, M. Yagi and M. Azumi.

24. Theory of Anomalous Transport in the Reverse Field Pinch

Plasma Physics and Controlled Fusion Vol. 37, No.6 (1995), pp.699-704

Itoh, K., S.-I. Itoh, M. Yagi and A. Fukuyama.

25. Self-sustained Magnetic Braiding in Toroidal Plasmas

Plasma Physics and Controlled Fusion Vol. 37, No.7 (1995), pp.707-713

Itoh, K., A. Fukuyama, S.-I. Itoh and M. Yagi.

26. Self-sustained plasma turbulence due to current diffusion

Physics of Plasmas Vol. 2, No.11 (1995), pp.4140-4148

Yagi, M., S.-I. Itoh, K. Itoh, A. Fukuyama and M. Azumi.

27. Nonlinear Simulation of Electron and Ion Turbulence

Journal of Plasma and Fusion Research Vol. 71, No. 11 (1995), pp.1123-1134

Yagi, M.

28. Self-Organized Dynamics and Thermal Instability in Steady State Tokamaks

Nuclear Fusion Vol. 35, No.12 (1995), pp.1669-1677

Fukuyama, A., K. Itoh, S.-I. Itoh, M. Yagi.

29. Ohmic Scaling Baed on Current Diffusive Balloonig mode

Journal of The Physical Society of Japan Vol.65, No.1 (1996), pp.11-13

Yagi, M., A. Fukuyama, S.-I. Itoh and K. Itoh.

30. Edge Localized Modes as New Bifurcation in Tokamaks

Physical Review Letter Vol. 76, No.6 (5, Feb., 1996), pp.920-923

Itoh, S.-I., K. Itoh, A. Fukuyama and M. Yagi.

31. Analytic Solutions of the Two-dimensional Transport Equation in Scrape-off-layer Plasmas

Plasma Physics and Controlled Fusion Vol.38, No.2 (1996), pp.155-164

Itoh, S.-I., M. Yagi and K. Itoh.

32. On Circulating Power of Steady State Tokamaks

Journal of The Physical Society of Japan Vol. 65, No.3 (1996), pp.760-764

Itoh, K., S.-I. Itoh, A. Fukuyama and M. Yagi.

33. A Model of Giant ELMs

Plasma Physics and Controlled Fusion Vol. 38, No.4 (1996), pp.527-549

Itoh, S.-I., K. Itoh, A. Fukuyama and M. Yagi.

34. Transport modeling of L-H transition and barrier formation

Plasma Physics and Controlled Fusion Vol.38, No.8 Special Issue (1996), pp.1319-1322

Fukuyama, A., Y. Fuji, S.-I. Itoh, M. Yagi and K. Itoh.

35. Double hysteresis in L/H transition and compound dithers

Plasma Physics and Controlled Fusion Vol.38, No.8 Special Issue (1996), pp.1337-1341

Toda, S., S.-I. Itoh, M. Yagi, A. Fukuyama and K. Itoh.

36. Theory of Self-sustained Turbulence in Confined Plasmas

Plasma Physics Reports Vol. 22, No.9 (1996), pp.721-739

Itoh, K., S.-I. Itoh, A. Fukuyama and M. Yagi.

37. Subcritical Excitation of Plasma Turbulence

Journal of The Physical Society of Japan Vol.65, No.9 (1996), pp.2749-2752

Itoh, K., S.-I. Itoh, M. Yagi and A. Fukuyama.

38. Self-sustained turbulence and H-mode confinement in toroidal plasmas

Plasma Physics and Controlled Fusion Vol. 38, No.10 (1996), pp.1746-1762

Itoh, S.-I., K. Itoh, M. Yagi and A. Fukuyama.

39. Dynamic Structure in Self-Sustained Turbulence

Plasma Physics and Controlled Fusion Vol. 38, No.12 (1996), pp.2079-2096

Itoh, K., S.-I. Itoh, M. Yagi and A. Fukuyama.

40. Current Diffusive Ballooning Mode in a Tokamak with a Noncircular Cross Section

Journal of The Physical Society of Japan Vol. 66, No. 2 (1997), pp.379-384

Yagi, M., A. Fukuyama, S.-I. Itoh and K. Itoh.

41. A Theoretical model of H-mode transition triggered by condensed neutrals near X-point

Plasma Physics and Controlled Fusion Vol. 39, No.2 (1997), pp.301-312

Toda, S., S.-I. Itoh, M. Yagi and Y. Miura.

42. On the chaotic nature of turbulence observed in benchmark analysis of nonlinear plasma simulation

CHAOS Vol. 7, No.1 (1997), pp.198-203

Yagi, M., S.-I. Itoh, K. Itoh, and A. Fukuyama

43. Turbulent transport and structural transition in confined plasmas

Plasma Physics and Controlled Fusion Vol. 39, No.5A, (1997), pp.A311-A322

Itoh, K., S.-I. Itoh, A. Fukuyama and M. Yagi

44. Self-sustained Plasma Turbulence due to Current Diffusion

Journal of the Korean Physical Society (Proc. Suppl.) Vol. 31, August, (1997), pp.S189-S195

Yagi, M., S.-I. Itoh, K. Itoh and A. Fukuyama

45. 1D simulation of sawtooth crash based on transport bifurcation

Plasma Physics and Controlled Fusion Vol. 39, No.9 (1997), pp.1397-1407

Kubota, T., S.-I. Itoh, M. Yagi, and A.Fukuyama

46. Comparison Analysis of Lorenz Model and Five Components Model

Journal of The Physical Society of Japan Vol. 66, No.9 (1997), pp.2689-2701

Aoyagi, T., M. Yagi and S.-I. Itoh

47. Current diffusive interchange mode turbulence at low magnetic shear

Plasma Physics and Controlled Fusion Vol. 39, No.9 (1997), pp.1561-1570

Itoh, K., M. Yagi, S.-I. Itoh, and A.Fukuyama

48. The effect of He-ash poisoning on L-mode and high -mode operations in ITER- like plasma

Plasma Physics and Controlled Fusion Vol. 39, No.11 (1997), pp.1871-1885

Tateishi, G., S.-I. Itoh, and M. Yagi

49. Nonlinear simulation of electromagnetic current diffusive interchange mode turbulence

Plasma Physics and Controlled Fusion Vol. 39, No.11 (1997), pp.1887-1914

Yagi, M., S.-I. Itoh, K. Itoh, and A.Fukuyama

50. Transition to an enhanced internal transport barrier

Plasma Physics and Controlled Fusion Vol. 40, No.5 (1998), pp.653-656

Fukuyama, A., S. Takatsuka, S. -I. Itoh, M. Yagi and K. Itoh

51. Suppression of plasma turbulence by asymmetric hot ions

Plasma Physics and Controlled Fusion Vol. 40, No.5 (1998), pp.661-664

Itoh, K., T. Ohkawa, S. -I. Itoh, M. Yagi and A. Fukuyama

52. Physics of collapses: probabilistic occurrence of ELMs and crashes

Plasma Physics and Controlled Fusion Vol. 40, No. 5 (1998) pp.737-740

Itoh, S.-I., S. Toda, M. Yagi, K. Itoh, A. Fukuyama

53. Transport Dynamics of Collapse in a Giant ELM

Journal of the Physical Society of Japan Vol. 67, No. 9 (1998), pp. 3100-3106

Kubota, T., S.-I. Itoh, M. Yagi and K. Itoh

54. Probabilistic Excitation of Plasma Transitions

Journal of the Physical Society of Japan Vol. 67, No. 12 (1998), pp. 4080-4083

Itoh, S.-I., S. Toda, M. Yagi, K. Itoh and A. Fukuyama

55. Numerical study of chaos on a shell model

CHAOS Vol.9, No.2 (1999), pp.393-402

Yagi, M., S.-I. Itoh, K. Itoh and A. Fukuyama

56. Burning Analysis on the Improved Confinement Mode

Journal of the Physical Society of Japan Vol. 68, No. 10 (1999), pp. 3277-3285

Tateishi, G., M. Yagi and S.-I. Itoh

57. New Shell Models for Rayleigh-Benard Turbulence

Journal of the Physical Society of Japan Vol. 75, No. 10 (1999), pp. 1195-1210

Fujimoto, T., M. Yagi and S.-I. Itoh

58. Probabilistic Nature in L/H Transition

Journal of the Physical Society of Japan Vol. 68, No. 11 (1999), pp. 3520-3527

Toda, S., S.-I. Itoh, M. Yagi, K. Itoh and A. Fukuyama

59. Possibility of Electric Field Bifurcation and Internal Transport barrier Formation in LHD Plasma

Journal of the Physical Society of Japan Vol.69, No.2 (2000), pp.445-450

Sanuki, H., K. Itoh, M. Yokoyama, A. Fujisawa, K. Ida, S. Toda, S.-I. Itoh, M. Yagi and A. Fukuyama

60. Comparison Study of Fast Responses in Confined Plasmas with Diffusivity Models

Journal of the Physical Society of Japan Vol.69, No.3 (2000), pp.722-728

Iwasaki, T., S.-I. Itoh, M. Yagi and K. Itoh

61. Tearing Mode Instability due to Anomalous Resistivity near Edge

Contribution to Plasma Physics Vol.40, No.3-4 (2000), pp.375-380

Furuya, A., S.-I. Itoh and M. Yagi

62. Model Analysis of Edge Relaxation Phenomena

Contribution to Plasma Physics Vol.40, No.3-4 (2000), pp.381-386

Matsukawa, S., S.-I. Itoh and M. Yagi

63. Fast Propagation of Pulses Induced in Edge

Contribution to Plasma Physics Vol.40, No.3-4 (2000), pp.450-455

Iwasaki, T., S.-I. Itoh, M. Yagi and K. Itoh

64. MHD interaction dynamics of shear flow and islands

Plasma Physics and Controlled Fusion Vol. 42, Supplement 5A (2000), pp.A133-A138

Yagi, M., S.-I. Itoh, K. Itoh and A. Fukuyama.

65. On turbulent transport in burning plasmas

Plasma Physics and Controlled Fusion Vol. 42, No.7 (2000), pp855-861

Itoh, K., M. Yagi, S.-I. Itoh and A. Fukuyama

66. Stabilization of Kinetic Internal Kink Mode by Ion Diamagnetic Effects

Journal of Plasma and Fusion Research Vol.76, No.8 (2000), pp.778-789

Naitou, H., T. Kuramoto, T. Kobayashi, M. Yagi, S. Tokuda and T. Matsumoto

67. Tearing Mode Instability due to Anomalous Resistivity

Journal of the Physical Society of Japan Vol.70, No.2 (2001), pp.407-414

Furuya, A., S.-I. Itoh and M. Yagi

68. Transition probability to turbulent transport regime

Plasma Physics and Controlled Fusion Vol.44, Supplement 5A (2002), pp.A473-A478

Kawasaki, M., A. Furuya, M. Yagi, K. Itoh and S.-I. Itoh

69. Effect of Microscopic Turbulence on Magnetic Island

Journal of the Physical Society of Japan Vol.71, No.5 (2002), pp.1261-1267

Furuya, A., S.-I. Itoh and M. Yagi

70. Bifurcation and phase diagram of turbulence constituted from three different scale-length modes

Plasma Physics and Controlled Fusion Vol.44, No.7 (2002), pp.1311-1328

Itoh, S.-I., A. Kitazawa, M. Yagi, and K. Itoh

71. Short Wavelength Temperature Gradient Driven Modes in Tokamak Plasmas

Physical Review Letter Vol.89, No.12 (2002), pp.125005-1~125005-4

Smolyakov, A. I., M. Yagi, Y. Kishimoto and R. Sydora

72. Linear Analysis of Neoclassical Tearing Mode based on the four-field reduced neoclassical MHD equations

Journal of the Physical Society of Japan Vol.72, No.2 (2003), pp313-319

Furuya, A., M. Yagi and S.-I. Itoh

73. One-Dimensional Simulation of Photo-Detached Electrons in Negative Ion Plasmas

Journal of Plasma and Fusion Research Vol.79, No.3 (2003), pp.274-281

Noguchi, M., T. Hirao, K. Sakurauchi, Y. Yamagata, H. Naitou, M. Yagi, K. Uchino and K. Muraoka

74. Theory of Plasma Turbulence and Structural Formation -Nonlinearity and Statistical View-

Journal of Plasma and Fusion Research Vol. 79, No.6 (2003), pp.608-pp.624

Itoh, K., S.-I. Itoh, A. Fukuyama and M. Yagi

75. Novel Turbulence Trigger for Neoclassical Tearing Mode in Tokamaks

Physical Review Letter Vol.91, No. 4 (July, 2003), pp.045003-1~ 045003-4

Itoh, S.-I., K. Itoh and M. Yagi

76. Turbulence trigger for neoclassical tearing modes in tokamaks

Plasma Physics and Controlled Fusion Vol.46, No. 1(2004), pp.123-143

Itoh, S.-I., K. Itoh and M. Yagi

77. Statistical theory for transition and sustainment of the improved confinement state

Plasma Physics and Controlled Fusion Vol.46, No.5A (2004), pp.A341-A346

Itoh, S.-I., K. Itoh, M. Yagi and S. Toda

78. Collisional effects on coherent structures of zonal flows and turbulent transport

Plasma Physics and Controlled Fusion Vol.46, No.5A (2004), pp.A335-A340

Itoh, K., K. Hallatschek, S. Toda, S.-I. Itoh, P. H. Diamond, M. Yagi and H. Sanuki

79. Life Time of Plasma States near Transition Boundary

Journal of the Physical Society of Japan Vol.74, No.3 (2005), pp.947-940

Itoh, S.-I., K. Itoh and M. Yagi

80. Excitation of Convective Cell Mode by Universal Drift Wave Turbulence

Journal of Plasma and Fusion Research SERIES Vol.6 (2004), pp.187-191

Saito, T., S.-I. Itoh, M. Yagi, T. S. Hahm and C. Z. Cheng

81. Control of Chaos by Linear and Nonlinear Feedback Methods

Journal of Plasma and Fusion Research SERIES Vol.6 (2004), pp.263-266

Saito, T., S.-I. Itoh and M. Yagi

82. Effect of Ion Viscosity on Neoclassical Tearing Mode

Journal of Plasma and Fusion Research SERIES Vol.6 (2004), pp.192-195

Yoshida, S., S.-I. Itoh, M. Yagi and M. Azumi

83. Simulation of photo-detached electrons in negative ion plasmas

Plasma Physics and Controlled Fusion Vol. 46, No.8 (2004), pp.1217-1230

Naitou, H., Y. Sakurai, Y. Tauchi, O. Fukumasa, M. Yagi, Y. Yamagata, K. Uchino, K. Muraoka

84. Nonlinear simulation of tearing mode based on 4-field RMHD model

Nuclear Fusion Vol.45, No.7 (2005), pp.900-906

Yagi, M., S. Yoshida, S.-I. Itoh, H. Naitou, H. Nagahara, J.-N. Leboeuf, K. Itoh, T. Matsumoto, S. Tokuda and M. Azumi

85. Turbulent transport of the ions with large Larmor radii

Plasma Physics and Controlled Fusion Vol. 47, No.7 (2005), pp.1015-1029

Vlad, M., F. Spineanu, S.-I. Itoh, M. Yagi, and K. Itoh

86. Self-sustained annihilation of magnetic islands in helical plasmas

Physics of Plasmas Vol.12, No.7 (2005), 072512-1~072512-6

Itoh, K., S.-I. Itoh, and M. Yagi

87. Short wavelength fluctuations and electron transport in TFTR

Physics Letters A 276(Nov. 2000) pp281-285

Wong, K. I., K. Itoh, S.-I. Itoh, A. Fukuyama and M. Yagi

88. Life time of plasma states near transition boundary

Journal of the Physical Society of Japan Vol.**74**, No.3 (2005) 947-950

Itoh, S.-I., K. Itoh, M. Yagi

89. On the bicoherence analysis of plasma turbulence

Phys. Plasmas **12** No.10 (2005) 102301

Itoh, K., Y. Nagashima, S-I Itoh, P. H. Diamond, A. Fujisawa, M. Yagi, A. Fukuyama

90. Nonlocal Closures in Long Mean Free Path Regimes Topics in Kinetic Theory

(Edited by T. Passot, C. Sulem and P. L. Sulem, American Mathematical Society, 2005) pp. 243-261

Smolyakov, A. I. , M. Yagi and J. D. Callen

91. Bispectral analysis applied to coherent floating potential fluctuations with geodesic acoustic wave frequency obtained in the edge plasmas on JFT-2M

Plasma Phys. Contr. Fusion 48 (2006) S1

Nagashima, Y., K. Itoh, S.-I. Itoh, A. Fujisawa, K. Hoshino, Y. Takase, M. Yagi, A. Ejiri, K. Ida, K. Shinohara, K. Uehara, Y.Kusama and JFT-2M group

92. Convergence study of bispectral analysis in experiments of high temperature plasmas

Rev. Sci. Instrum. **77** (2006) 045110.

Nagashima, Y., K. Itoh, S.-I. Itoh, M. Yagi, A. Fujisawa, K. Hoshino, K. Shinohara, K. Uehara, Y. Kusama, A. Ejiri, and Y. Takase

93. Observation of coherent bicoherence and biphasic in potential fluctuations around geodesic acoustic mode frequency on JFT-2M

Plasma Phys. Contr. Fusion (2006) A377

Nagashima, Y., K. Itoh, S.-I. Itoh, K. Hoshino, A. Fujisawa, A. Ejiri, Y. Takase, M. Yagi, K. Shinohara, K. Uehara, Y. Kusama and JFT-2M group

94. Turbulence Spreading in Reversed Shear Plasmas

Plasma Phys. Contr. Fusion **48** (2006) A409-A418.

Yagi, M., T. Ueda, S.-I. Itoh, M. Azumi, K. Itoh, P. H. Diamond and T.S. Hahm

95. Simulation of resistive drift wave turbulence in linear device

J. Plasma Phys. (2006) in press

Kasuya, N., M. Yagi, K. Itoh

96. Physics of Zonal Flows

Phys. Plasmas **13** No. 5 (2006) 055502

Itoh, S.-I. Itoh, P. H. Diamond, T. S. Hahm, A. Fujisawa, G. R. Tynan, M. Yagi and Y. Nagashima

97. Geodesic Acoustic Eigenmodes

J. Plasma Fusion Research Vol. 1 (2006) 037

Itoh, K., S.-I. Itoh, P. H. Diamond, A. Fujisawa, M. Yagi, T. Watari, Y. Nagashima, A. Fukuyama

98. Experimental study of nonlinear processes in edge turbulence of toroidal plasmas

J. Plasma Fusion Research (2006) in press

Nagashima, Y., K. Hoshino, K. Shinohara, K. Uehara, Y. Kusama, K. Nagaoka, A. Fujisawa, K. Ida, Y. Yoshimura, S. Okamura, K. Matsuoka, A. Ejiri, Y. Takase, K. Itoh, M. Yagi, S.-I. Itoh, JFT-2M group, and CHS group

99. Selection of a Radial Wavelength of Zonal Flows

J. Phys. Soc. Jpn. Vol.**75** No.10 (2006) 104501(1-6)

S. Toda, K. Itoh, K. Hallatschek, M. Yagi and S. -I. Itoh

100. Numerical Study of Neutral Gas Transport in Linear Plasma Device

Jpn. J. App. Phys. Vol.**46** Part1 No.4A (2007) 1680-1691

M. Ignatenko, M. Azumi, M. Yagi, S. Shinohara, S.-I. Itoh and K. Itoh

101. Numerical Simulation of Resistive Drift Wave Turbulence in a Linear Device

J. Phys. Soc. Jpn. Vol.**76** No.4 (2007) 044501(1-12)

N. Kasuya, M. Yagi, M. Azumi, K. Itoh and S.-I. Itoh

102. Nonlinear Drive of Tearing Mode by Microscopic Plasma Turbulence

Plasma Fusion Res. Vol.**2** (2007) 025(1-9)

M. Yagi, S.-I. Itoh, K. Itoh, M. Azumi, P. H. Diamond, A. Fukuyama and T. hayashi

103. Coexistence of Collisional Drift and Flute Wave Instabilities in Bounded Linear ECR Plasma

J. Phys. Soc. Jpn. Vol.**76** No. 5 (2007) 054501(1-6)

K. Kamataki, Y. Nagashima, S. Shinohara, Y. Kawai, M. Yagi, K. Itoh and S.-I. Itoh

104. Thermal Transport Effects on Drift-Tearing Mode

J. Phys. Soc. Jpn. Vol.**76** No. 6 (2007) 064501(1-7)

S. Nishimura, M. Yagi, S.-I. Itoh, M. Azumi and K. Itoh

105. Physics of internal transport barrier of toroidal helical plasmas

Phys. Plasmas Vol.14 No.2 (2007) 020702(1-4)

K. Itoh, S. Toda, A. Fujisawa, S.-I. Itoh M. Yagi, A. Fukuyama, P.H. Diamond and K. Ida

106. Study on Low-Frequency Fluctuations using New Azimuthal Probe Array in High-Density Helicon Linear Plasma

Plasma Fusion Res. Vol.2 (2007) 031(1-3)

K. Terasaka, S. Shinohara, Y. Nagashima, T. Yamada, M. Kawaguchi, T. Maruta, S. Inagaki, Y. Kawai, A. Fujisawa, N. Kasuya, M. Yagi, K. Itoh and S.-I. Itoh

107. Observation of Competition between Drift Instability and Flute Instability in a Bounded Linear ECR Plasma

Plasma Fusion Res. Vol.2 (2007) 034(1-3)

K. Kamataki, Y. Nagashima, S. Shinohara, Y. Kawai, S. Inagaki, M. Yagi, K. Itoh and S.-I. Itoh

108. Reduction Effect of Neutral Density on the Excitation of Turbulent Drift Waves in a Linear Magnetized Plasma with Flow

Phys. Plasmas Vol.14 No.7 (2007) 702301(1-7)

Y. Saitou, A. Yonesu, S. Shinohara, M. V. Ignatenko, N. Kasuya, M. Kawaguchi, K. Terasaka, T. Nishijima, Y. Nagashima, Y. Kawai, M. Yagi, S.-I. Itoh, M. Azumi and K. Itoh

109. Turbulent Transport of Poloidal Momentum in Toroidal Plasmas

J. Phys. Soc. Jpn. Vol.76 (2007) 084502

K. Itoh, S. Toda, A. Fujisawa, S.-I. Itoh, M. Yagi and A. Fukuyama

110. On Imaging of Plasma Turbulence

Plasma Fusion Res. 2 (2007) S1003

K. Itoh, A. Fujisawa, Y. Nagashima, S.-I. Itoh, M. Yagi, P.H. Diamond, A. Fukuyama and K. Hallatschek

111. Fine positioning of a poloidal probe array

Rev. Sci. Instrum. Vol.78 (2007) 123501

T. Yamada, Y. Nagashima, S. Inagaki, Y. Kawai, M. Yagi, S.-I. Itoh, T. Maruta, S. Shinohara, K. Terasaka, M. Kawaguchi, M. Fukao, A. Fujisawa and K. Itoh

112. Detection of Cascading in Drift Wave Turbulence using Probe Array in Linear Plasmas

Plasma Fusion Res. Vol.2 (2007) 051

T. Yamada, S.-I. Itoh, T. Maruta, S. Shinohara, N. Kasuya, Y. Nagashima, M. Yagi, K. Terasaka, M. Kawaguchi, S. Inagaki, Y. Kawai, M. Fukao, A. Fujisawa and K. Itoh

113. In search of zonal flows by using direct density fluctuation measurements

Plasma Phys. Control. Fusion Vol.49 No.10 (2007) 1611-1625

Y. Nagashima, K. Itoh, S.-I. Itoh, A. Fujisawa, M. Yagi, K. Hoshino, K. Shinohara, A. Ejiri, Y. Takase, T. Ido, K. Uehara, Y. Miura and JFT-2M group

114. Transport analysis of the effect of zonal flows on electron internal transport barriers in toroidal

helical plasmas

Nucl. Fusion **47**, No.8 (2007) 914-919

S. Toda, K. Itoh, A. Fujisawa, S.-I. Itoh, M. Yagi, A. Fukuyama, P. H. Diamond, K. Ida

115. Turbulent Stabilization of Neoclassical Tearing Modes

J. Phys. Soc. Jpn. **76** (2007) 113501

A. Smolyakov, P. Diamond, M. Yagi, K. Itoh and S.-I. Itoh

116. Poloidal Flow Generated by Drift-Tearing Mode

J. Phys. Soc. Jpn. Vol.77 No. 1 (2008) 014501 75p

S. Nishimura, M. Yagi, S.-I. Itoh, M. Azumi, and K. Itoh

117. Investigation of Competitive Oscillations between Drift Mode and Flute Mode in Linear Cylindrical ECR Plasma

Plasma Phys. Control. Fusion Vol. 50 No.3 (2008) 035011.

K. Kamataki, S. -I. Itoh, Y Nagashima, S. Inagaki, S. Shinohara, M. Yagi, T. Yamada, Y. Kawai, A. Fujisawa and K. Itoh

118. Sheared flow generation and mode suppression in a magnetized linear cylindrical plasma

Plasma Phys. Control. Fusion Vol. 50 No 5 (2008) 055005

H Tsuchiya, S-I Itoh, A Fujisawa, K Kamataki, S Shinohara, M Yagi, Y Kawai, A Komori and K Itoh

119. Transport Dynamics and Multi-Scale Coupling of Turbulence in LHD

Plasma Fusion Res. Vol.3 Special Issue (2008) S1006

S. Inagaki, N. Tamura, Y. Nagashima, T. Tokuzawa, T. Yamada, K. Ida, T. Maruta, S. Kubo, K. Terasaka, T. Shimozuma, Y. Nagayama, K. Kawahata, A. Komori, S. Shinohara, A. Fujisawa, M. Yagi, Y. Kawai, S.-I. Itoh, K. Itoh and the LHD experimental group

120. Spatiotemporal Behavior of Drift Waves in LMD-U

Plasma Fusion Res. Vol. 3 Special Issue (2008) S1021

T. Yamada, S.-I. Itoh, K. Terasaka, N. Kasuya, Y. Nagashima, S. Shinohara, T. Maruta, M. Yagi, S. Inagaki, Y. Kawai, A. Fujisawa and K. Itoh

121. Selection rule for turbulent structural formation: Study of magnetized cylindrical plasmas,

J. Phys.: Conference Series, Vol. 123 (2008) 012026

N. Kasuya, M. Yagi, K. Itoh and S.-I. Itoh,

122. Selective Formation of Turbulent Structures in Magnetized Cylindrical Plasmas,

Vol. 15 (2008) 052302

N. Kasuya, M.Yagi, K. Itoh and S.-I. Itoh,

123. Disparate scale nonlinear interaction in dege turbulence

Contrib. Plasma Phys. 48 No.1-3, (2008) 13-22

M. Yagi, S.-I. Itoh, K. Itoh and P. H. Diamond

124. Anatomy of plasma turbulence

Nature Phys. Vol. 4 (2008) 721-725

T. Yamada, S.-I. Itoh, T. Maruta, N. Kasuya, Y. Nagashima, S. Shinohara, K. Terasaka, M. Yagi, S. Inagaki, Y. Kawai, A. Fujisawa and K. Itoh

125. Propagation Velocity Analysis of a Single Blob in the SOL

Plasma Fusion Res. Vol. 3 (2008) 040

S. Sugita, M. Yagi, S. -I. Itoh and K. Itoh

126. Experimental Study of Drift Wave Turbulence on Linear Plasma

Plasma Fusion Res. Vol. 3 (2008) 044

T. Yamada, S.-I. Itoh, T. Maruta, N. Kasuya, S. Shinohara, Y. Nagashima, M. Yagi, K. Terasaka, S. Inagaki, Y. Kawai, M. Fukao, A. Fujisawa and K. Itoh

127. Observation of Zonal Flow Type Oscillation in Linear Cylindrical ECR Plasmas

Plasma Fusion Res. Vol. 3 (2008) 047

K. Kamataki, S. -I. Itoh, Y Nagashima, S. Inagaki, S. Shinohara, M. Yagi, T. Yamada, Y. Kawai, A. Fujisawa and K. Itoh.

128. Nonlinear Dynamics of Rotating Drift-Tearing Modes in Tokamak Plasmas

Phys. Plasmas Vol. 15 (2008) 092506

S. Nishimura, S. Benkadda, M. Yagi, S.-I. Itoh and K. Itoh

129. Non-local turbulent effect on internal transport barrier collapse in reversed shear configuration

J. Phys.: Conf. Ser. 123 (2008) 012030

S. Tokunaga, M. Yagi, S.-I. Itoh and K. ITOh

130. Coexistence of Zonal Flows and Drift-Waves in a Cylindrical Magnetized Plasma

J. Phys. Soc. Jpn. 77 (2008) 114501

Y. Nagashima, S. -I. Itoh, S. Shinohara, M. Fukao, A. Fujisawa, K. Terasaka, Y. Kawai, N. Kasuya, G. R. Tynan, P. H. Diamond, M. Yagi, S. Inagaki, T. Yamada, and K. Itoh

131. Nonlinear energy transfer of drift-wave fluctuation in a cylindrical laboratory plasma

Plasma Fusion Res. Vol. 3 (2008) 056

Y. Nagashima, S.-I. Itoh, S. Shinohara, M. Fukao, A. Fujisawa, K. Terasaka, Y. Kawai, N. Kasuya, M. Yagi, S. Inagaki, T. Yamada, and K. Itoh

132. Multi-scale Interaction between Neoclassical Tearing Mode and Drift Wave

Theoretical and Applied Mechanics Japan Vol. 57 (Edited by A. Murakami, National Committee for

IUTAM, Science Council of Japan, 2008) pp. 199-205.

M. Yagi, S.-I. Itoh and K. Itoh

133. Nonlinear Effect on the Plasma Blob Propagation in the Scrape-off Layer

Theoretical and Applied Mechanics Japan Vol. 57 (Edited by A. Murakami, National Committee for IUTAM, Science Council of Japan, 2008) pp. 207-215.

S. Sugita, M. Yagi, S.-I. Itoh and K. Itoh

134. Multi-scale Transport Simulation of Non-local Turbulent Effect on Internal Transport Barrier Collapse in Tokamak Plasma

Theoretical and Applied Mechanics Japan Vol. 57 (Edited by A. Murakami, National Committee for IUTAM, Science Council of Japan, 2008) pp. 429-436.

S. Tokunaga, M. Yagi, S.-I. Itoh and K. Itoh

135. Effect of the curvature and the beta parameter on the nonlinear dynamics of a drift tearing magnetic island

Nucl. Fusion 49 (2009) 055016

M. Muraglia, O. Agullo, M. Yagi, S. Benkadda, P. Beyer, X. Garbet, S.-I. Itoh, K. Itoh and A. Sen

136. Multi-scale transport simulation of toroidal momentum source profile effect on internal transport barrier collapse

Nucl. Fusion 49, (2009) 075023.

S. Tokunaga, M. Yagi, S. -I. Itoh and K. Itoh

137. Effects of Micro-Fluctuations on Magnetic Island Evolution

J. Plasma and Fusion Res., Series 8 (2009) 1179

S. Nishimura, S. Benkadda, M. Yagi, S.-I. Itoh, K. Itoh

138. Analysis of Nonlinear Coupling for Turbulent Structural Formation in Magnetized Cylindrical Plasmas

N. Kasuya, M. Yagi, K. Itoh, S.-I. Itoh

139. Multi-scale Interaction between MHD, Turbulence and Transport in Tokamak Plasmas

J. Plasma and Fusion Res., Series 8 (2009) 122

M. Yagi, S.-I. Itoh, S. Tokunaga, S. Nishimura, K. Itoh

140. Electron parallel heat transport in the scrape-off layer using a particle-in-cell code

Plasma and Fusion Research 5 Special Issue (2010) S1017

A. Froese, T. Takizuka, M. Yagi

141. Two-dimensional full particle simulation of the flow patterns in the scrape-off-layer plasma for upper- and

lower-null point divertor configurations in tokamaks

Nucl. Fusion 49 (2009) 075038

T. Takizuka, K. Shimizu, N. Hayashi, M. Hosokawa, M. Yagi

142. Interchange Turbulence and Radial Transport in Tokamak Scrape-off Layer Dominated by Meso-scale Structure

J. Phys. Soc. Jpn. 79 (2010) 044502

S. Sugita, M. Yagi, S. -I. Itoh and K. Itoh

143. Locking of magnetic island rotation by static error field

Nucl. Fusion 50 (2010) 054007

S. Nishimura, M. Yagi, K. Itoh , S.-I. Itoh and S. Benkadda

144. Selective Formation of Streamer in Magnetized Cylindrical Plasmas

Nucl. Fusion 50 (2010) 054003-1-8

N. Kasuya, M. Yagi, K. Itoh and S.-I. Itoh

145. Two-dimensional bi-spectral analysis of drift wave turbulence in a cylindrical plasma

Phys. Plasmas 17 (2010) 052313

T. Yamada, S.-I. Itoh, S. Inagaki, Y. Nagashima, S. Shinohara, N. Kasuya, K. Terasaka, K. Kamataki, H. Arakawa, M. Yagi, A. Fujisawa and K. Itoh

146. Bi-spectral analysis of density and potential flucutuations in a high neutral density cylindrical plasma

Plasma and Fusion Research Special Issue (2010) 5, S2047(2010)

T. Kobayashi, S. Inagaki, H. Arakawa, K. Kamataki, Y. Nagashima, T. Yamada, S. Sugita, M. Yagi, N. Kasuya, A. Fujisawa, S. -I. Itoh and K. Itoh

147. Electron parallel heat transport in the scrape-off layer using a particle-in-cell code

Plasma and Fusion Research 5 S1017, 1-6 (2010)

A. Froese, T. Takizuka, M. Yagi

148. Shear flow effects on double tearing mode global magnetic reconnection

Plasma and Fusion Research Special Issue (2010)

Thibaut VOSLION, Olivier AGULLO, Peter BEYER, Masatoshi YAGI, Sadruddin BENKADDA, Xavier GARBET, Kimitaka ITOH, Sanae-I. ITOH

149. Effect of Source and Sink on Heat Transport in the SOL

Contribution to Plasma Physics 50 3-5, 285-290 (2010)

A. Froese, T. Takizuka, M. Yagi

150. Particle Simulation Study of SOL Heat Transport to the Divertor Plate

Journal of Plasma and Fusion Research SERIES 9 557 (2010)

A. Froese, T. Takizuka, M. Yagi

151. Kinetic Particle Simulation Study of Parallel Heat Transport in Scrape-off Layer Plasmas over a Wide

Range of Collisionalities

Plasma and Fusion Research 50 026 (2010)

A. Froese, T. Takizuka, M. Yagi

152. Turbulence Diagnostic Simulator for Analzing Structural Formation in Magnetically Confined Plasmas

J. .Plasma Fusion Res. Series, Vo. 9 (2010) 523-528

N.Kasuya, S.Nishimura, M.Yagi, K.Itoh, S.-I.Itoh and N.Ohyabu

153. Numerical Diagnostics of Electrostatic Potential Peturbed by Magnetic Island

Plasma and Fusion Research Special Issue, Vol.5 (2010) pp.S2057-1-4

S.Nishimura, N.Kasuya, M.Yagi, K.Itoh, S.-I.Itoh and N.Ohyabu

154. Radial electric fields in the vicinity of locked magnetic islands

Physics of Plasmas, Vol.17, 122505, 2010

S. Nishimura, K. Itoh, M. Yagi, K. Ida, and S.-I. Itoh

155. Effect of externally driven magnetic islands on resistive ballooning turbulence

Journal of Plasma and Fusion Research, The Japan Society of Plasma Science and Nuclear Fusion Research, Vol.6 2403119, 2010

S. Nishimura, and M. Yagi

156. On Detection of a Global Mode Structure in Experiments by Use of Turbulence Diagnostic Simulator,

Plasma and Fusion Research, in press

N. Kasuya, S. Nishimura, M. Yagi, K. Itoh and S.-I. Itoh

157. Nonlinear mode couplings in a cylindrical magnetized plasma

Plasma and Fusion Research Special Issue 5 (2010) S2016

T. Yamada, S. -I. Itoh, S. Inagaki, Y. Nagashima, S. Shinohara, N.Kasuya, K. Terasaka, K. Kamataki, H. Arakawa, M. Yagi, A. Fujisawa and K. Itoh

158. Study of Amplitude Correlation Technique in a Cylindrical Magnetized Plasma

J. Phys. Soc. Jpn. 79 (2010) 085001

T. Yamada, S. -I. Itoh, S. Inagaki, Y. Nagashima, K. Kamataki, H. Arakawa, M. Yagi, A. Fujisawa and K. Itoh

159. Observation of Quasi-Two-Dimensional Nonlinear Interaction in a Drift-Wave Streamer

Phys. Rev. Lett. 105 (2010) 225002

T. Yamada, S. -I. Itoh, S. Inagaki, Y. Nagashima, N. Kasuya, K. Kamataki, H. Arakawa, T. Kobayashi, M. Yagi, A. Fujisawa and K. Itoh

160. Bifurcation of the plasma turbulence on LMD-U

Plasma Physics and Controlled Fusion, Vol. 52, No. 10, (2010), 105009 (12pp)

H. Arakawa, S. Inagaki, Y. Nagashima, T. Yamada, K. Kamataki, S. Sugita, M. Yagi, N. Kasuya, A. Fujisawa, S. -I. Itoh and K. Itoh,

161. Probability Density Function of Density Fluctuations in Cylindrical Helicon Plasmas

Plasma and Fusion Research, Vol. 5, (2010), S2044 (3pp)

H. Arakawa, S. Inagaki, Y. Nagashima, T. Yamada, K. Kamataki, T. Kobayashi, S. Sugita, M. Yagi, N. Kasuya, A. Fujisawa, K. Itoh and S.-I. Itoh,

162. Forced Magnetic Reconnection in Helical Plasmas

Plasma and Fusion Research: Rapid Communications 5 (2010) 040

S. Nishimura, Y. Narushima, S. Toda, M. Yagi, K. Itoh and S.-I. Itoh

163. ECRH Superposition on Linear Cylindrical Helicon Plasma in LMD-U

Plasma and Fusion Research Special Issue, Vol.5 (2010) S2046

K. Kamataki, S. -I. Itoh, S. Inagaki, Y. Arakawa, Y. Nagashima, T. Yamada, M. Yagi, A. Fujisawa and K. Itoh

164. Modelling of Ion Kinetic Effects for SOL Flow Formation

Contrib. Plasma Phys., Vol.50 (2010) 267-272

T. Takizuka, K. Hoshino, K. Shimizu, M. Yagi

165. Observation of edge Reynolds stress increase preceding an L-H transition in Compact Helical System

Plasma and Fusion Research: Rapid Communications (2011) in press

Yoshihiko NAGASHIMA, Kenichi NAGAOKA, Kimitaka ITOH, Akihide FUJISAWA, Mitsutaka ISOBE, Tsuyoshi AKIYAMA, Chihiro SUZUKI, Shin NISHIMURA, Yasuo YOSHIMURA, Keisuke MATSUOKA, Shoichi OKAMURA, Yuichi TAKASE, Akira EJIRI, Sanae -I. ITOH, Masatoshi YAGI, and CHS Group

166. Development of radially movable multi-channel Reynolds stress probe system for a cylindrical laboratory plasma

RSI 82, 033503 (2011)

Yoshihiko Nagashima, Shigeru Inagaki, Kunihiro Kamakaki, Hiroyuki Arakawa, Takuma Yamada, Shunjiro Shinohara, Yoshinobu Kawai, Masatoshi Yagi, Akihide Fujisawa, Sanae -I. Itoh, Kimitaka Itoh, and Yuichi Takase

167. Trapping of multiple hydrogen atoms in a tungsten monovacancy from first principles

PHYSICAL REVIEW B **82**, 184117 (2010)

Kazuhito Ohsawa, Junya Goto, Masahiro Yamakami, Masatake Yamaguchi and Masatoshi Yagi

168. Global and Kinetic MHD Simulation by the Gpic-MHD Code

Plasma Science and Technology, Vol.13, No.5, Oct. 528 (2011)

Hiroshi NAITOU, Yusuke YAMADA, Kenji KAJIWARA, Wei-li LEE,
Shinji TOKUDA, Masatoshi YAGI

169. Generation and amplification of magnetic islands by drift interchange turbulence

Phys. Rev. Lett. 107, 095003 (2011)

M. Muraglia, O. Agullo, S. Benkadda, M. Yagi, X. Garbet, A. Sen

170. Method for Estimating the Wavenumber of Standing Waves Using Three Langmuir Probes

Plasma and Fusion Research, **6**, 1401050-1, 1401050-5 (2011)

Tatsuya KOBAYASHI, Yoshihiko NAGASHIMA, Shigeru INAGAKI Hiroyuki ARAKAWA, Makoto SASAKI, Takuma YAMADA, Masatoshi YAGI, Naohiro KASUYA, Akihide FUJISAWA, Sanae-I. ITOH and Kimitaka ITOH

171. Observation of Nonlinear Coupling between Low Frequency Coherent Modes and Background

Turbulence in LMD-U

Plasma and Fusion Research, vol **6**, 2401082 (2011)

T. Kobayashi, Y. Nagashima, S. Inagaki, H. Arakawa, M. Sasaki, T. Yamada, M. Yagi, N. Kasuya, A. Fujisawa, S. -I. Itoh and K. Itoh

172. Non-Gaussian processes of global momentum and particle fluxes in a cylindrical laboratory plasma

Phys. Plasmas, **18**, 070701 (2011)

Yoshihiko Nagashima, Sanae -I. Itoh, Shigeru Inagaki, Hiroyuki Arakawa, Naohiro Kasuya, Akihide Fujisawa, Kunihiro Kamataki, Takuma Yamada, Shunjiro Shinohara, Stella Oldenburger, Masatoshi Yagi, Yuichi Takase Patrick H. Diamond, and Kimitaka Itoh

173. Evaluation of Electron Temperature Fluctuations Using Two Different Probe Techniques in Plasma Assembly for Nonlinear Turbulence Analysis (PANTA)

Plasma and Fusion Research, **6**, 2406118 (2011)

Katsuyuki KAWASHIMA, Yasuhiro MIYOSHI, Stell OLDENBURGER, Shigeru INAGAKI, Hiroyuki ARAKAWA, Yoshihiko NAGASHIMA, Takuma YAMADA, Makoto SASAKI, Tatsuya KOBAYASHI,

Kazuya URIU, Satoru SUGITA, Masatoshi YAGI, Naohiro KASUYA, Akihide FUJISAWA, Sanae -I. ITOH and Kimitaka ITOH

174. Heavy Ion Beam Probe Measurement in Turbulence Diagnostic Simulator

Plasma Science and Technology, **13**, 326 (2011)

N. Kasuya, S. Nishimura, M. Yagi, K. Itoh and S.-I. Itoh

175. Trapping of multiple hydrogen atoms in a tungsten monovacancy from first principles

PHYSICAL REVIEW B **82**, 184117 (2010)

Kazuhito Ohsawa, Junya Goto, Masahiro Yamakami, Masatake Yamaguchi, and Masatoshi Yagi

176. Impact of a shear flow on double tearing nonlinear dynamics

Phys. Plasmas **18**, 062302 (2011)

T. Voslion, O. Agullo, P. Beyer, M. Yagi, S. Benkadda, X. Garbet, K. Itoh, and S-I. Itoh

177. Three-dimensional Turbulence Simulation of Edge Transport and Impact of Plasma Rotation

J. Phys. Soc. Jpn. **81** 034502 (2012)

S. Sugita, P. Beyer, G. Fuhr, S. Benkadda, X. Garbet, M. Yagi, S.-I. Itoh and K. Itoh

178. Bohm-like Dependence of Transport in Scrape-off Layer Plasmas

J. Phys. Soc. Jpn. **81** 044501 (2012)

S. Sugita, M. Yagi, S.-I. Itoh and K. Itoh

179. Mechanisms of plasma rotation effects on the stability of type-I edge-localized mode in tokamaks

Nucl.Fusion **51**, 073012 (2011).

N. Aiba, M. Furukawa, M. Hirota, N. Oyama, A. Kojima, S. Tokuda and M. Yagi

180. Nonlinear hybrid simulations of energetic particle modes in realistic tokamak flux surface geometry

Plasma Fus. Res. **6** (2011) 2403109 (Special Issue 1)

A. Bierwage, Y. Todo, N. Aiba, K. Shinohara, M. Ishikawa and M. Yagi

181. Parallelization of Gyrokinetic PIC Code for MHD Simulation

Progress in NUCLEAR SCIENCE and TECHNOLOGY, Vol.2 (2011) 657-662.

H. Naitou, H. Hashimoto, Y. Yamada, S. Tokuda, M. Yagi

182. Configuration and binding energy of multiple hydrogen atoms trapped in monovacancy in bcc transition metals

PHYSICAL REVIEW B **85**, 094102 (2012)

Kazuhito Ohsawa, Keisuke Eguchi, Hideo Watanabe, Masatake Yamaguchi, and Masatoshi Yagi

182. Effect of externally driven magnetic islands on resistive ballooning turbulence

Journal of Plasma and Fusion Research, The Japan Society of Plasma Science and Nuclear Fusion Research, Vol.6, 24031, 2011

S. Nishimura and M. Yagi

183. Stability of externally driven magnetic islands in a helical plasma

Journal of Plasma and Fusion Research, The Japan Society of Plasma Science and Nuclear Fusion Research, Vol.7, 2403107, 2012

S. Nishimura, S. Toda, M. Yagi, and Y. Narushima,

184. Nonlinear stability of magnetic islands in a rotating helical plasma

Physics of Plasmas, American Institute of Physics, Vol.19, 122510, 2012

S. Nishimura, S. Toda, M. Yagi, and Y. Narushima

185. Influence of resonant magnetic perturbation on a rotating helical plasma

Plasma Physics and Controlled Fusion, The institute of Physics, Vol.6, 014013,2013.(selected oral talk in ISHW/APPTC 2012)

S. Nishimura, S. Toda, M. Yagi, and Y. Narushima,

186. Nonlinear Simulation of Energetic Particle Modes in High-Beta Tokamak Plasma

Plasma and Fusion Research **7**, 2403081 (2012)

A. BIERWAGE, N. AIBA, Y. TODO, W. DENG, M. ISHIKAWA, G. MATSUNAGA, K. SHINOHARA and M. YAGI

187. Simulation Study of L/H Transition with Self-Consistent Integrated Modelling of Core and SOL/Divertor Transport

Contrib. Plasma Phys. **52**, 372(2012)

M. Yagi, K. Shimizu, T. Takizuka, M. Honda, N. Hayashi, K. Hoshino, A. Fukuyama

188. Nonlinear variational method for predicting fast collisionless magnetic reconnection

Nuclear Fusion, **53**, 063024 (2013)

M. Hirota, P. J. Morrison, Y. Ishii, M. Yagi and N. Aiba

189. Development of the transport-code framework for self-consistent predictions of rotation and the radial electric field

Nucl. Fusion **53** 073050 (2013)

M. Honda, S. Ide, T. Takizuka, N. Hayashi, M. Yoshida, M. Yagi and T. Fujita