

2006年度相澤研の研究業績

平成 19 年 11 月 5 日

学術論文 (査読あり)

1. Y. Aizawa, T. Mitsui, and T. Kameda, Refractory-Activation Oscillator Model for the Cross-Bridge Formation in the Acto-Myosin System- Two Cooperative Phenomena in the Hill's Relation, *NPCS* **6** (2006), 150-162.
2. T. Akimoto and Y. Aizawa, Scaling Exponents of the Slow Relaxation in Non-hyperbolic Chaotic Dynamics, *NPCS* **6** (2006), 178-182.
3. S. Shinkai and Y. Aizawa, The Lempel-Ziv Complexity of Non-Stationary Chaos in Infinite Ergodic Cases, *Prog. Theor. Phys.* **116** (2006), 503-515.
4. T. Akimoto and Y. Aizawa, New Aspects of the Correlation Functions in Non-Hyperbolic Chatic Systems, *Journal of the Korean Physical Society*, **50** (2007), 254-260.
5. S. Shinkai and Y. Aizawa, The Lempel-Ziv Complexity in Infinite Ergodic Systems, *Journal of the Korean Physical Society*, **50** (2007), 261-266.
6. K. Orihashi and Y. Aizawa, Heteroclinic Turbulence in the Lotka-Volterra Reaction Diffusion Equation, *Journal of the Korean Physical Society*, **50** (2007), 267-271.
7. T. Mitsui and Y. Aizawa, Geometrical Resonance in the Refractory-Activation Oscillator Model for the Crossbridge Formation in the Actomyosin System, *Journal of the Korean Physical Society*, **50** (2007) 272-279

学術論文 (査読なし) なし

学会発表

1. T. Akimoto and Y. Aizawa, A study of correlation function in non-hyperbolic dynamical systems, The 4th International Conference on Nonlinear Science: Dynamics Days Asia Pacific 4 (DDAP4), Pohang (Korea), July 2006.
2. T. Mitsui and Y. Aizawa, Geometric Resonance in the Refractory-Activation Oscillator Model for the Cross-bridge Formation in the Actomyosin System, The 4th International Conference on Nonlinear Science: Dynamics Days Asia Pacific 4 (DDAP4), Pohang (Korea), July 2006.
3. T. Matsumoto and Y. Aizawa, Effects of Non-Stationary processes and Position Dependence Flipping Rate on an On-Off Ratchet, The 4th International Conference on Nonlinear Science: Dynamics Days Asia Pacific 4 (DDAP4), Pohang (Korea), July 2006.

4. K. Orihashi and Y. Aizawa, Spatio-temporal Chaos of three variable competitive Lotka-Volterra reaction diffusion equation, The 4th International Conference on Nonlinear Science: Dynamics Days Asia Pacific 4 (DDAP4), Pohang (Korea), July 2006.
5. S. Shinkai and Y. Aizawa, The Lempel-Ziv Complexity in Infinite Ergodic System, The 4th International Conference on Nonlinear Science: Dynamics Days Asia Pacific 4 (DDAP4), Pohang (Korea), July 2006.
6. 秋元琢磨, 相澤洋二, エルゴード理論における普遍分布, 日本物理学会 (千葉大学) 2006 年 9 月
7. 東敬人, 相澤洋二, クラスターの統計的性質 ~ 相互作用依存性と温度分布 ~ , 日本物理学会 (千葉大学) 2006 年 9 月
8. 中川正基, 相澤洋二, Singular Infinite Modal Map の不変測度について, 日本物理学会 (千葉大学) 2006 年 9 月
9. T. Akimoto and Y. Aizawa, Randomness of the Coefficient of Restitution in Hamiltonian Dynamics, The 4th 21COE Symposium, Condensed Matter Physics in Self-organized Systems, Waseda University(Japan), Sep. 2006.
10. Tomohiro Hasumi, The waiting-time statistics in 2-D stick-slip model for earthquakes, The 4th COE Symposium, Condensed Matter Physics in Self-organized Systems, Waseda University(Japan), Sep. 2006.
11. 秋元琢磨, 相澤洋二, 非平衡状態と無限測度エルゴード理論, 第二回 連成シミュレーションフォーラム (福岡) 2007 年 2 月
12. 新海創也, 相澤洋二, 1 次元非双曲力学系の普遍的な統計則に関する数値的諸結果, 第二回 連成シミュレーションフォーラム (福岡) 2007 年 2 月
13. 蓮見 知弘, 相澤洋二, 2 次元 spring-block 系における地震の発生間隔の統計的研究, 第二回 連成シミュレーションフォーラム (福岡) 2007 年 2 月