

LIST OF MAIN PUBLICATIONS

(June 2002)

Nguyen Dinh Cong
Institute of Mathematics, Hanoi Vietnam

1 Contributions to scientific journals

1. On the Lyapunov exponents of solutions of linear differential systems with a random inhomogeneity, *Differentsial'nye Uravneniya*, **20**(1984), No 5, 887–889. (in Russian)
2. Lyapunov characteristic exponents of a regular system with a nonlinear perturbation and a random inhomogeneity, *Differentsial'nye Uravneniya*, **21**(1985), No6, 962–974; English transl. in *Differential Equations*, **21**(1985), No1, 644–654.
3. Stochastic stability of the Lyapunov exponents of systems with integral separateness, *Mat. Zametki*, **40**(1986), No3, 393–400; English transl. in *Math. Notes*, **40**(1986), No3, 731–735.
4. On the stochastic stability of the Lyapunov exponents of equations of arbitrary order, *Mat. Sb.*, **132(174)** (1987), No2, 225–243; English transl. in *Math. USSR Sb.*, **60**(1988), No1, 217–235.
5. Stochastic stability test for the highest Lyapunov exponent, *Mat. Zametki*, **43**(1988), No1, 82–97; English transl. in *Math. Notes*, **43**(1988), No1, 49–57.
6. On auxiliary and central exponents of linear systems with coefficients perturbed by a white noise, *Differentsial'nye Uravneniya*, **26**(1990), No3, 420–427; English transl. in *Differential Equations*, **26**(1990), No3, 307–313.
7. On Lyapunov exponents and central exponents of linear systems of differential equations with almost periodic coefficients under random perturbations, *Acta Mathematica Vietnamica*, **15**(1990), No1, 69–73.

8. Lyapunov exponents and central exponents of systems with weakly varying coefficients under small random perturbations, *Differentsial'nye Uravneniya*, **27**(1991), # 10, 1712–1720; English transl. in *Differential Equations*, **27**(1991), # 10, 1208–1213.
9. A property of systems of differential equations perturbed by white noises and its applications to the stochastic continuity of Lyapunov exponents, *Stochastic Analysis and Applications*, **11**(4), 423–439 (1993).
10. *jointly with L. Arnold*. Generic properties of Lyapunov exponents. *Random & Computational Dynamics*, **2**(1994), 335–345.
11. Structural stability of linear random dynamical systems. *Ergodic Theory and Dynamical Systems*, **16**(1996), 1207–1220.
12. Topological classification of linear hyperbolic cocycles. *Journal of Dynamics and Differential Equations*, **8**(1996), 427–467.
13. Structural stability and topological classification of continuous-time linear hyperbolic cocycles, *Random & Computational Dynamics* **5**(1997), 19–63.
14. *jointly with V. I. Oseledets*. Topological invariants of linear cocycles of an ergodic map. *Proceedings of the Steklov Institute of Mathematics*, **216**(1997), 243–256.
15. *jointly with L. Arnold*. On the simplicity of the Lyapunov spectrum of products of random matrices, *Ergodic Theory and Dynamical Systems*, **17**(1997), 1005–1025.
16. Lower estimations for the Lyapunov exponents of linear systems of differential equations under small random perturbation. *Vietnam Journal of Mathematics*, **25**(1997), 253–267.
17. *jointly with L. Arnold and V. I. Oseledets*. Jordan normal form for linear cocycles. *Random Operators and Stochastic Equations*, **7**(1999), 303–358.
18. *jointly with L. Arnold*. Linear cocycles with simple Lyapunov spectrum are dense in L^∞ , *Ergodic Theory and Dynamical Systems*, **19**(1999), 1389–1404.

19. *jointly with L. Arnold and V. I. Oseledets.* The essential range of a nonabelian cocycle is not a cohomology invariant, *Israel Journal of Mathematics*, **116**(2000), 71–76.
20. A remark on nonuniform property of linear cocycles, *Vietnam Journal of Mathematics*, **28**(2000), 81–85.
21. Lyapunov spectrum of nonautonomous stochastic differential equations, *Stochastic and Dynamics*, **1**(2001), 127–157.
22. *jointly with S. Siegmund.* Dichotomy spectrum of nonautonomous linear stochastic differential equations. To appear in *Stochastic and Dynamics*.

2 Books

1. *Topological Dynamics of Random Dynamical Systems.* Oxford Mathematical Monographs. Clarendon Press, Oxford, 1997.