

CURRICULUM VITAE (July 2013)

Phan Thành Nam

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EDUCATION AND POSITION

2011-2013 Postdoctoral position at CNRS & University of Cergy-Pontoise, Department of Mathematics, with Mathieu Lewin.

2008-2011 Ph.D. at University of Copenhagen. Advisor: Jan Philip Solovej.

2007-2008 Master at University of Orléans. Advisor: Alain Pham Ngoc Dinh.

2003-2007 Bachelor in Mathematics & Computer Sciences at Vietnam National University at Ho Chi Minh City. Advisor: Dang Duc Trong.

RESEARCH INTERESTS

Many body quantum mechanics, spectral theory, partial differential equations.

RESEARCH ARTICLES

12. M. Lewin, P. T. Nam, and B. Schlein. Fluctuations around Hartree states in the mean-field regime. *Preprint* 2013. arXiv:1307.0665
11. M. Lewin, P. T. Nam, and N. Rougerie. Derivation of Hartree's theory for generic mean-field Bose systems. *Preprint* 2013. arXiv:1303.0981
10. M. Lewin, P. T. Nam, S. Serfaty, and J. P. Solovej. Bogoliubov spectrum of interacting Bose gases. *Comm. Pure Appl. Math.* (2013), in press.
9. P. T. Nam, F. Portmann, and J. P. Solovej. Asymptotics for two-dimensional atoms. *Ann. Henri Poincaré* 13 (2012), no. 2, 333–362.
8. P. T. Nam. New bounds on the maximum ionization of atoms. *Commun. Math. Phys.* 312 (2012), no. 2, 427–445.
7. D. D. Trong, P. T. Nam, and P. T. Thuc. The body force in a three-dimensional Lamé system: identification and regularization. *Inverse Probl. Sci. Eng.* 20 (2012), no. 4, 517–532.
6. P. T. Nam. An approximate solution for nonlinear backward parabolic equations. *J. Math. Anal. Appl.* 367 (2010), no. 2, 337–349.
5. P. T. Nam, D. D. Trong, and N. H. Tuan. The truncation method for a two-dimensional nonhomogeneous backward heat problem. *Appl. Math. Comput.* 216 (2010), no. 12, 3423–3432.

4. D. D. Trong, M. N. Minh, A. Pham Ngoc Dinh, and P. T. Nam. Hölder-type approximation for the spatial source term of a backward heat equation. *Numer. Funct. Anal. Optim.* 31 (2010), no. 12, 1386–1405.
3. D. D. Trong, A. Pham Ngoc Dinh, and P. T. Nam. Determine the spatial term of a two-dimensional heat source. *Applicable Analysis* 88 (2009), no. 3, 457–474.
2. D. D. Trong, A. Pham Ngoc Dinh, P. T. Nam, and T. T. Tuyen. Determination of the body force of a two-dimensional isotropic elastic body. *J. Comput. Appl. Math.* 229 (2009), no. 1, 192–207.
1. P. T. Nam and M. N. Minh. Proof of a conjecture on general means. *J. Inequal. Pure Appl. Math.* 9 (2008), no. 3, Article 86.

PROCEEDINGS

2. P. T. Nam. On the number of electrons that a nucleus can bind. *Proceedings of the International Congress on Mathematical Physics*, Aalborg 2012.
1. D. D. Trong, P. T. Nam and M. N. Minh. Recovering a class of entire functions and application to heat equations. *Proceedings of the Vietnamese Congress of Mathematicians*, Quy Nhon 2008. *Vietnam J. Math.* 37 (2009), no. 2&3, 399–417.

INVITED TALKS

- June 2013 Conference “Mathematical properties of large quantum systems”, Institut Henri Poincaré, Paris.
- Apr. 2013 Maths Physics Young Researchers Meeting, Institut Henri Poincaré.
- Jan. 2013 Analysis Seminar, McGill University.
- Oct. 2012 Analysis Seminar, Aarhus University.
- Aug. 2012 International Congress on Mathematical Physics, Aalborg. Invited speaker in section “Quantum mechanics and spectral theory”.
- July 2012 Workshop “New Developments in Relativistic Quantum Mechanics and Applications”, Isaac Newton Institute, Cambridge.
- Feb. 2012 4th Meeting of the GDR Quantum Dynamics, IMT, Toulouse.
- Jan. 2012 Working group Analysis & Dynamical Systems, MAPMO, Orléans.
- Nov. 2011 Congrès LIA CNRS Formath Vietnam, Paris 13 & Paris 7.
- Jan. 2011 Workshop “Selected Topics in Spectral Theory”, Erwin Schrödinger Institute, Vienna.

TEACHING

- 2009-2011 TA at University of Copenhagen in master courses: Quantum Mechanics - Mathematical Aspects, Spectral Theory, Fourier Analysis.