Thomas Chen

Curriculum Vitae

Department of Mathematics
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Personal

US permanent resident. Citizen of Switzerland.

Married with two children.

Employment History

2013 -	Associate Professor of Mathematics, University of Texas at Austin.
2008 - 2013	Assistant Professor of Mathematics, University of Texas at Austin. (on leave in the academic year 2007/08)
2004 - 2008	Assistant Professor of Mathematics, Princeton University.
2001 - 2004	Courant Instructor, Courant Institute, New York University. Mentor: Prof. Horng-Tzer Yau (Harvard University).

Education

2001	Ph.D. Theoretical and Mathematical Physics, ETH Zürich. Thesis advisor: Prof. Jürg Fröhlich. Coadvisor: Prof. Gian-Michele Graf.
1999	Ph.D. Mechanical Engineering, ETH Zürich. Thesis advisor: Prof. Hans Brauchli. Coadvisor: Prof. Eduard Zehnder.

Research Interests

Analysis, Mathematical Physics, Applied Mathematics.

Frank Gerth III Faculty Fellowship, 2014 - 2016.

National Science Foundation Conference Grant DMS-1412627 for TexAMP 2014, PI.

NSF CAREER Grant DMS-1151414, 2012 - 2017, PI.

Annales Henri Poincaré Prize 2010 for the publication [22] in the bibliography.

National Science Foundation Grant DMS-1009448, 2010 - 2013, PI.

National Science Foundation Grant DMS-0704031 / DMS-0940145, 2007 - 2010, PI.

National Science Foundation Grant DMS-0407644 / DMS-0524909, 2004 - 2007, PI.

NYU Research Challenge Fund Award 2003 - 2004.

Mentoring

- *PhD thesis:*

Kenneth Taliaferro (current, PhD expected in summer 2015).

Daniel Blazevski (PhD 2012, University of Texas at Austin; co-supervisor with Rafael de la Llave).

- *Postdoctoral:*

Dr. Younghun Hong (PhD 2013, Brown University), since 2013 (jointly with Nataša Pavlović).

Dr. Itaru Sasaki (Ph.D. 2007, Hokkaido University), 2007/08 at Princeton University (current position: Associate Professor, Shinshu University).

Doctoral Thesis Committee, UT Austin

Mathematics: William Carlson (advisor Misha Vishik), Jiexian Li (advisor Gordan Zitkovic), Zhihui Xie (advisor Nataša Pavlović), Rohit Jain (advisors Luis Caffarelli, Alessio Figalli), Maja Tasković (advisors Irene Gamba, Nataša Pavlović).

Physics: Victor Chua (PhD 2013, advisor Gregory Fiete). Yingyue Boretz (PhD 2013, advisor Linda Reichl). David Stark (advisors Richard Hazeltine, Swadesh Mahajan).

ORGANIZATION OF MEETINGS AND COURSES

2014   TexAMP '14 Symposium, UT Austin. Joint organization with David Damanik.

2013   TexAMP '13 Symposium, Rice University. Joint organization with David Damanik.

2012-'17   Annual thematic minicourses, UT Austin. Based on NSF CAREER Grant DMS-1151414.

2011   Summer School on Analysis, PDE's and Mathematical Physics, UT Austin.
            Joint organization with Luis Caffarelli, Irene Gamba, and Natasa Pavlovic.
            Taught minicourse (five 1 hour lectures).

INVITED LECTURE SERIES

2009   "Renormalization Group Methods in Mathematical Sciences 2009", three 1 hour lectures, RIMS, Kyoto University.

2007   "Renormalization and Spectral Analysis in QED", five 2 hour lectures, Kyushu University.

2003   "Renormalization Group Methods in Mathematical Sciences 2003", three 1 hour lectures, RIMS, Kyoto University.

PROFESSIONAL SERVICES

National Science Foundation review panels in 2006, 2008, 2011, 2013, 2014.
Simons Foundation, Reviewer of Grant Proposals, since 2013.

- *Administrative and Committee Services at UT Austin:*
Graduate Advisor, since 2014.
Co-organizer of the Analysis Seminar.
Graduate Admissions Director, 2013 - 2014.
Member of Tenure Promotion Triad for Andrew Neitzke, 2014.
Instructor Hiring Committee (chair), 2013/14, 2014/15.
Graduate Prelim Exam Committee: Applied Mathematics, S'10, F'10. Analysis (chair), F'13, F'14.
Undergraduate Studies Committee, Calculus Reform Committee (since 2011).

- *Journal Refereeing:* Advances in Mathematics, Duke Mathematical Journal, Journal of Functional Analysis, Communications in Mathematical Physics, Documenta Mathematica, Journal of Differential Equations, Journal of Statistical Physics, Reviews in Mathematical Physics, Annales Henri Poincaré, Journal of Mathematical Physics, Symmetry Integrability and Geometry, Abhandlungen aus dem Mathematischen Seminar der Uni Hamburg, Physica D, Nonlinearity, Journal of Physics A.

PROFESSIONAL AFFILIATIONS

American Mathematical Society (AMS). International Association of Mathematical Physics (IAMP). Society of Industrial and Applied Mathematics (SIAM).

TEACHING EXPERIENCE

- *University of Texas at Austin:*

Graduate: Methods of Applied Mathematics I, PDE I, Complex Analysis, Quantum Theory - Analysis and PDE.

Undergraduate: Introduction to Differential Equations. Introduction to Real Analysis. Applied PDE's. Calculus I. Real Analysis I. Theory of Functions of a Complex Variable. Probability Theory.

Graduate reading courses: Kenneth Taliaferro (since spring 2011). Claudia Raithel (fall 2012-summer 2014). Chirag Barai, Jason Jo (spring 2010). Rohit Jain (fall 2010, spring 2011, fall 2012). Chris White (summer, fall 2011).

Undergraduate reading courses: Boyi Yang (spring and fall 2009). Jacob Pollard (spring 2013). Chris Lutsko (summer and fall 2014)

- *Princeton University:*

Undergraduate: Calculus I, II. Introductory Multivariable Calculus (head instructor, multiple times). Advanced Multivariable Calculus (review lecturer and head instructor).

- *New York University:*

Undergraduate: Abstract Algebra. Calculus II. Discrete Math. Chaos & Dynamical Systems.

- *ETH Zürich (TA):*

Quantum Field Theory. Theoretical Physics for Mathematicians I, II. Quantum Mechanics I. Mechanics I $\sim$ III. Multibody Dynamics. Numerical Methods in Mechanics. Introd. Chaos Theory. Co-supervision of several Diploma (M.S.) students.

2014	Stanford University, invited by Prof. L. Ryzhik.
	Mittag-Leffler Institute, 1 week.*
	Columbia University, invited by Prof. G. Bal.*
	University of Toronto, invited by Prof. I.M. Sigal.
	Stanford University, invited by Prof. L. Ryzhik.
2011	University of Toronto, 1 week (January), invited by Prof. I.M. Sigal
2010	Princeton University, 1 week (December), invited by Prof. I. Rodnianski.
	Erwin Schrödinger Institute, 1 week (June).*
	ETH Zürich, 1 week (May), invited by Prof. J. Fröhlich.*
2009	Kyoto University, 1 week (September), invited by Prof. K. Ito.
	ETH Zürich, 1 week (June/July), invited by Prof. J. Fröhlich.
	Princeton University, 1 week (January), invited by Prof. I. Rodnianski.
2008	University of Toronto, 1 week (March), invited by Prof. I.M. Sigal.
	Erwin Schrödinger Institute, University of Vienna. Had to decline.
2007	Kyushu University, Japan, 1 week (May), invited by Profs. K. Ito and F. Hiroshima.
	University of Heidelberg, Germany, 1 week (March), invited by Prof. V. Bach.
2006	University of Texas at Austin, 1 week (November).
	Kyushu University and RIMS, Kyoto University, Japan, 2 weeks (September),
	invited by Profs. K. Ito and I. Ojima.
	Erwin Schrödinger Institute, University of Vienna, 1.5 weeks (June).*
2005	CTS, ETH Zürich, and Dept. of Mathematics, Mainz Univ., 2 weeks (June),
	invited by Profs. J. Fröhlich and V. Bach.
	Department of Mathematics, University of Notre Dame, 1 week (May),
	invited by Prof. I.M. Sigal.
	LMU Munich, 1 week (April), invited by Prof. H. Siedentop.
	Center of Theoretical Studies (CTS), ETH Zürich, 1 month (Jan), invited by Prof. J. Fröhlich.
2004	Department of Mathematics, Stanford University, 1 month (May/June),
	invited by Prof. H.-T. Yau.
	Department of Mathematics, University of Virginia, 1 week (May), invited by Prof. I. Herbst.*
	Department of Mathematics, Stanford University, 2 weeks (Jan), invited by Prof. H.-T. Yau.
2003	RIMS, Kyoto University, and Dept. of Mathematics, Tokyo University, 2 weeks (Sep),
	invited by Profs. I. Ojima, K. Ito, and K. Yajima.
	TU and LMU Munich, 1 week (June), invited by Prof. H. Spohn.*
2002	Department of Mathematics, University of Toronto, 1 week (May), invited by Prof. I.M. Sigal.

Travel and stay entirely financed by host institution, except for * (travel excluded).

2014	Invited speaker, Conference "Effective Equations in Math. Physics" Mittag-Leffler Institute.
	Invited speaker, Session "NLS and applications", SIAM conference, Madrid.
	Invited speaker, Session "Math Phys & Spectral Theory" AMS meeting, Knoxville.

2013	Invited speaker, Session "Dispersive Equations", SIAM conference, Orlando.
	Invited speaker, KI-Net Workshop on Quantum Systems, U Maryland.
	Invited speaker, IMACS Conference, Athens, GA, had to decline.
2012	Invited speaker, Session "Dyn. Systems and Spectral Theory", AIMS conf., Orlando.
	Invited speaker, Session "Nonlin. PDE's of Fluid and Gas Dyn.", AMS meeting, U Hawaii.
2011	Invited speaker, Session "Dispersive PDE's & Fluid Mech.", SIAM meeting San Diego.
	Invited speaker, "Rigorous QFT in the LHC era", at ESI, Vienna.
	Invited participant, "Renormalization" Oberwohlfach, had to decline.
2010	Invited speaker, Southern California Analysis and PDE Conference, UCLA.
	Invited speaker, Program "Matter and Radiation", at Erwin Schrödinger Institute, Vienna.
	Invited speaker, FRG Workshop in Kinetic Theory, Brown University.
	Invited speaker, "Classical and Random Dynamics in Mathematical Physics", UT Austin.
	Invited speaker, Program on Quantum Field Theory, NUS, Singapore.
2009	Invited speaker, Session on Harmonic Analysis and PDE's, AMS meeting, Waco, TX.
	Invited speaker, "Analyt. & num. issues on quantum, kinetic and statist. evol.", UT Austin.
	Invited speaker, Oberwohlfach workshop on Dynamics of Quantum Systems.
	Invited speaker, "RG Methods in Mathematical Sciences", RIMS, Kyoto Univ. Three talks.
	Invited speaker, "Nonlinear PDE's and Engineering Applications", Banff.
2008	Invited speaker, "Quantum manybody systems", CMS, Univ. of Montreal, had to decline.
	Invited speaker, "Math. Horizons for Quantum Physics", NUS, Singapore, had to decline.
	Invited speaker, one hour talk, 26th Western States Meeting on Math Phys, Caltech.
2007	Invited lecture series, Kyushu University (five 2-hour lectures).
	Invited speaker, Minisymposium at SIAM conference on PDE's, Arizona.
	Invited speaker, Meeting of the German Mathematical Society, Berlin, had to decline.
	Main speaker, Meeting of the German Physical Society, University of Heidelberg.
2006	Invited speaker, "Current Status of Rigorous Statistical Mechanics & QFT", Kyushu Univ.
	Invited speaker, "Evolution of microscopic and macroscopic fields", Banff, had to decline.
	Invited speaker, "Analysis of Large Quantum Systems", ESI, Vienna University.
2005	Invited speaker, "International Conference on Analysis and Quantum", LMU Munich.
2004	Invited speaker, "QMath 9", Giens, France, had to decline.
	Invited speaker, "Dynamics in Statistical Mechanics", CMS, University of Montreal.
2003	Invited speaker, "RG Methods in Mathematical Sciences", RIMS, Kyoto Univ. Three talks.
	Invited talk, ICMP 2003, Lisbon, Portugal.
2002	ICM 2002 Beijing, Short Communications.
	Int. Conf. on Differential Equations and Mathematical Physics, UAB, 2002.
2001	Invited talk, Oberwohlfach workshop on Quantum Field Theory, had to decline.
1998	4th World Congress on Computational Mechanics, Buenos Aires, Argentina, 1998.
	ESM Conference, University of Manchester, UK, 1998.
1997	NATO Adv. Study Inst. Conf. on Comp. Meth. in Mech., Varna, Bulgaria, 1997.
	SIAM 45th Anniversary Conference, Stanford University, 1997.
1996	19th International Congress on Theoretical and Applied Mechanics, Kyoto, 1996.

2014	University of Illinois at Chicago, *Graduate Seminar & Applied Math. Seminar.* (scheduled)
	Stanford University, *Applied Mathematics Seminar.*
	University of Texas at Dallas, *Mathematics Colloquium.*
2011	University of Texas at Austin, *Mathematical Physics Seminar.*
	Michigan State University, *Analysis Seminar.*
	University of Toronto, *Applied Mathematics and PDE Seminar.*
2010	Texas A&M University, *Mathematical Physics Seminar.*
	Rice University, *Geometry-Analysis Seminar.*
	University of Texas at Austin, *Undergraduate Research Math Club.*
2009	University of Texas at Austin, *Analysis and Mathematical Physics Seminar.*
2008	University of Texas at Austin, *Analysis Seminar.*
	University of Texas at Austin, *Mathematical Physics Seminar.*
	University of Toronto, *Applied Mathematics and PDE Seminar.*
	Rutgers University, *Mathematical Physics Seminar.*
2007	University of Illinois Urbana Champaign, *Special Colloquium.*
2006	University of Alabama Birmingham, *Mathematics Colloquium.*
	University of Texas at Austin, *Analysis Seminar.*
	University of Texas at Austin, *Mathematical Physics Seminar.*
	RIMS, Kyoto University, *Mathematical Physics Seminar.*
2005	Princeton University, *Mathematical Physics Seminar.*
	Ludwig-Maximilians-Universität München (LMU), *Oberseminar Analysis.*
2004	Rutgers University, *Mathematical Physics Seminar.*
	Invitation to McMaster University, but had to decline.
	University of Virginia, *Mathematical Physics Seminar.*
	Princeton University, *Mathematical Physics Seminar.*
2003	University of Massachusetts, Amherst, *Applied Analysis Seminar.*
	University of Tokyo, *Functional Analysis Seminar.*
	RIMS, Kyoto University, *Mathematical Physics Seminar.*
	University of Geneva, *Mathematical Physics Seminar.*
	Technische Universität München, *Mathematical Physics Seminar.*
	Ludwig-Maximilians-Universität München, *Mathematical Physics Seminar.*
2002	University of California Irvine, *Mathematical Physics Seminar.*
	California Institute of Technology, *Mathematical Physics Seminar.*
	University of California Davis, *Mathematical Physics Seminar.*
	Princeton University, *Mathematical Physics Seminar.*
2001	Courant Institute, *Special Analysis Seminar.*
2000	Technische Universität München, *Mathematical Physics Seminar.*
	Johannes Gutenberg Universität Mainz, *Mathematical Physics Seminar.*

Bibliography

An updated list of publications with links to the papers and preprints can be found under

http://www.math.utexas.edu/users/tc

1. (with J. Fröhlich and M. Seifert) "Renormalization group methods: Landau-Fermi liquid and BCS superconductor", *Session LXII of Les Houches summer schools*, F. David, P. Ginsparg, J. Zinn-Justin (eds.), Elsevier, 1996.

2. (with H. Brauchli) "Dynamical behaviour of a constrained system near a singularity of the configuration space", *Proc. 4th World Congr. Comp. Mech.*, Buenos Aires, 1998.

3. "Non-holonomy, critical manifolds and stability in constrained Hamiltonian systems", *Ph.D. Thesis*, Diss-ETH 13017, 1999.

4. "Operator-theoretic infrared renormalization and construction of dressed one-particle states in non-relativistic QED", *Ph.D. Thesis*, Diss-ETH 14203, 2001.

5. (with J. Fuchs) "The Haag-Lopuszanski-Sohnius theorem", *Concise encyclopedia of supersymmetry*, J. Bagger, S. Duplij, W. Siegel (eds.), Kluwer, 2003.

6. (with V. Bach, J. Fröhlich, and I. M. Sigal) "Smooth Feshbach map and operator-theoretic renormalization group methods", *J. Funct. Anal.*, **203** (1), 44-92, 2003. (49 pages)

7. (with V. Vougalter and S. A. Vugalter) "The increase of binding energy and enhanced binding in non-relativistic QED", *J. Math. Phys.*, **44** (5), 2003. (10 pages)

8. (with J. Fröhlich and J. Walcher) "The decay of unstable noncommutative solitons", *Comm. Math. Phys.*, **237** (1-2), 243-269, 2003. (27 pages)

9. (with J.-M. Barbaroux and S. A. Vugalter) "Binding conditions for atomic N-electron systems in non-relativistic QED", *Ann. H. Poinc.*, **4** (6), 1101 - 1136, 2003. (36 pages).

10. "Long-time dynamics and localization lengths for the 3-D Anderson model at weak disorders", *Proceedings ICMP 2003*, World Scientific, 2005.

11. "Critical manifolds and stability in Hamiltonian systems with non-holonomic constraints", *J. Geom. Phys.*, **49** (3-4), 418 - 462, 2004. (45 pages)

12. "Localization lengths and Boltzmann limit for the Anderson model at small disorders in dimension 3". *J. Stat. Phys.*, **120** (1-2), 279 - 337, 2005. (59 pages)

13. "Localization lengths for Schrödinger operators on $\mathbb{Z}^2$ with decaying random potentials", *Int. Math. Res. Not.*, **2005:54**, 3341-3373, 2005. (33 pages)

14. "Convergence in higher mean of a random Schrödinger to a linear Boltzmann evolution". *Comm. Math. Phys.*, **267**, 355-392, 2006. (38 pages)

15. (with V. Bach, J. Fröhlich, and I. M. Sigal) "The renormalized electron mass in non-relativistic QED". *J. Funct. Anal.*, **243** (2), 426 - 535, 2007. (110 pages)

16. "Infrared renormalization in non-relativistic QED and scaling criticality". *J. Funct. Anal.*, **254** (10), 2555 - 2647, 2008. (93 pages)

17. (with J. Fröhlich) "Coherent infrared representations in non-relativistic QED", *Spectral Theory and Mathematical Physics: A Festschrift in Honor of Barry Simon's 60th Birthday, Proc. Symp. Pure Math.*, AMS, 2007. (Refereed research article, 21 pages)

18. (with J.-M. Barbaroux, V. Vougalter, and S. A. Vugalter) "On the ground state energy of the translation invariant Pauli-Fierz model". *Proc. Amer. Math. Soc.*, **136** (2), 2008. (8 pages)

19. (with J. Fröhlich and A. Pizzo) "Infraparticle scattering states in non-relativistic QED: I. The Bloch-Nordsieck paradigm". *Commun. Math. Phys.*, **294** (3), 761 – 825, 2010. (65 pages)

20. (with J. Fröhlich and A. Pizzo) "Infraparticle scattering states in non-relativistic QED: II. Mass shell properties". *J. Math. Phys.*, **50** (1), 2009. (34 pages)

21. (with I. Sasaki) "Boltzmann limit and quasifreeness for a homogenous Fermi gas in a weakly disordered random medium." *J. Stat. Phys.*, **132** (2), 329-353, 2008. (25 pages)

22. (with J.-M. Barbaroux, V. Vougalter, and S. A. Vugalter) "Quantitative estimates on the Hydrogen ground state energy in non-relativistic QED." *Ann. H. Poincaré,* **11** (8), 1487-1544, 2010. (58 pages). *Received Annales Henri Poincaré Prize 2010.*

23. (with N. Pavlović) "The quintic NLS as the mean field limit of a Boson gas with three-body interactions." *J. Funct. Anal.,* **260** (4), 959-997, 2011. (39 pages)

24. (with N. Pavlović) "On the Cauchy problem for focusing and defocusing Gross-Pitaevskii hierarchies." *Discr. Contin. Dyn. Syst.*, **27** (2), 715 - 739, 2010. (25 pages)

25. (with N. Pavlović and N. Tzirakis) "Energy conservation and blowup of solutions for focusing Gross-Pitaevskii hierarchies." *Ann. Inst. H. Poinc. (C) Anal. Non Lin.*, **27** (5), 1271-1290, 2010. (24 pages)

26. (with N. Pavlović) "Recent results on the Cauchy problem for focusing and defocusing Gross-Pitaevskii hierarchies", *Math. model. nat. phenom.*, **5** (4), 2010. Spectral problems. Issue dedicated to the memory of M. Birman (V. Volpert, A. Laptev et al., eds.).

27. (with N. Pavlović) "Higher order energy conservation and global wellposedness of solutions for Gross-Pitaevskii hierarchies." *Commun. PDE*, **39** (9), 1597-1634, 2014. (37 pages)

28. (with N. Pavlović) "A new proof of existence of solutions for focusing and defocusing Gross-Pitaevskii hierarchies", *Proc. Amer. Math. Soc.*, **141**, 279-293, 2013. (15 pages)

29. (with I. Rodnianski) "Boltzmann limit for a homogenous Fermi gas with Hartree-Fock interactions in a random medium", *J. Stat. Phys.,* **142** (5), 1000 - 1051, 2011. (52 pages)

30. (with J. Faupin, J. Fröhlich and I.M. Sigal) "Local decay in non-relativistic QED", *Commun. Math. Phys.*, **309** (2), 543 - 582, 2012. (40 pages)

31. "Charge Transport in Random Media and Boltzmann Limits for Single Particle and Manybody Models", *RIMS Kokyuroku Bessatsu* **B21**, 63 - 108, 2011. (45 pages)

32. (with N. Pavlović) "A lower bound on blowup rates for the 3D incompressible Euler equation and a single exponential Beale-Kato-Majda type estimate", *Commun. Math. Phys.*, 314 (1), 265 - 280, 2012. (15 pages)

33. (with N. Pavlović) "Derivation of the cubic NLS and Gross-Pitaevskii hierarchy from N-body Schrödinger equations in $d = 3$ based on spacetime norms", *Ann. H. Poincaré*, **15** (3), 543-588, 2014. (46 pages)

34. (with N. Pavlović and N. Tzirakis) "Multilinear Morawetz identities for the Gross-Pitaevskii hierarchy", *Contemp. Math.,* **581**, 39 - 62, 2012. (23 pages)

35. "On the Dynamics of a Fermi Gas in a Random Medium with Dynamical Hartree-Fock Interactions", *IMS Lecture Notes Series "Complex Quantum Systems" (National University of Singapore)*, Vol. **24** (2013).

36. (with W. Abou Salem, V. Vougalter) "On the well-posedness of the semi-relativistic Schrödinger-Poisson system", *Dynamics of PDE*, **9** (2), 121-132, 2012. (12 pages)

37. (with W. Abou Salem, V. Vougalter) "Existence and nonlinear stability of stationary states for the semi-relativistic Schrödinger-Poisson system", *Ann. H. Poincaré*, **15** (6), 1171 - 1196 (2014). (25 pages)

38. (with V. Bach, J. Faupin, J. Fröhlich and I.M. Sigal) "Effective dynamics of an electron coupled to an external potential in non-relativistic QED", *Ann. H. Poincaré*, **14** (6), 1573-1597, 2013. (24 pages)

39. (with W. Abou Salem, V. Vougalter) "On the generalized semi-relativistic Schrödinger-Poisson system in $\mathbb{R}^n$", *Doc. Math.*, 18, 343 - 357, 2013. (16 pages)

40. (with K. Taliaferro) "Derivation in strong topology and global well-posedness of solutions to the Gross-Pitaevskii hierarchy", *Commun. PDE.*, **39** (9), 1658-1693, 2014. (35 pages).

41. (with C. Hainzl, N. Pavlović and R. Seiringer) "Unconditional uniqueness for the cubic Gross-Pitaevskii hierarchy via quantum de Finetti", *Commun. Pure Appl. Math, to appear.* http://arxiv.org/abs/1307.3168 (33 pages)

42. (with C. Hainzl, N. Pavlović and R. Seiringer) "On the well-posedness and scattering for the Gross-Pitaevskii hierarchy via quantum de Finetti", *Lett. Math. Phys.*, **104** (7), 871-891, 2014. (21 pages)

43. (with W. Abou Salem and V. Vougalter) "Arrest of blowup for the 3-D semi-relativistic Schroedinger-Poisson system with pseudo-relativistic diffusion", *Submitted.* http://arxiv.org/abs/1403.3027 (19 pages)