



UNIVERSITÀ DI PISA

DIPARTIMENTO DI MATEMATICA

Prof. Vladimir Georgiev
Dipartimento di Matematica
Università degli Studi di Pisa
Largo Pontecorvo 5
56127 Pisa
Italy
tel.: +39 - 050 2213 301
fax: +39 - 050 2213 224
email: georgiev@dm.unipi.it

ACADEMIC CV of VLADIMIR GEORGIEV

Department of Mathematics, University of Pisa,
Largo Bruno Pontecorvo 5, 56127, Pisa, Italy
Te. +39-0502213301, fax: +39-0502213224
e-mail: georgiev@dm.unipi.it

RESEARCH INTERESTS

The main fields of the research interests involve decay estimates for equations of Mathematical Physics on flat or curved space - time, smoothing and Strichartz estimates for evolution problems, global existence of small and large data solutions to equations of classical quantum mechanics, existence and stability of solitary waves, Maxwell – Dirac and Maxwell – Schrödinger equation, scattering and long range effects for relativistic and non – relativistic particles and fields .

EDUCATION

- PhD (Second Degree) at Institute of Mathematics and Informatics, Bulgarian Academy of Sciences – 1992, title of PhD thesis: “Asymptotic behaviour of solutions to linear and nonlinear Maxwell’s equations “
- PhD (First Degree) at Institute for Foreign Students, Sofia – 1987, PhD Advisors prof. P.Popivanov and prof. V.Petkov, title of PhD thesis: “Scattering for first order systems”.
- Master of Mathematics, University of Sofia 1981, Master Thesis with advisors prof. V.Petkov and prof. P.Popivanov.

EMPLOYMENT

- Full Professor at University of Pisa, from 2000-
- Full Professor at University of L'Aquila 1997-2000;
- Senior researcher I deg. (Full Professor) at the Institute of Mathematics of Bulgarian Academy of Sciences 1994 – 1997;
- Senior researcher at Institute of Mathematics of Bulgarian Academy of Sciences 1991 – 1994;
- Researcher at the Institute of Mathematics of Bulgarian Academy of Sciences - 1987 – 1991;
- Senior assistant at the Institute for foreign students Sofia -1984 – 1987;
- Assistant at the Institute for foreign students Sofia -1981 - 1984.



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TEACHING – Courses for graduate, master degree students

Basic Courses of Analysis, Equations of Mathematical Physics, Partial Differential equations have been presented in different places as follows:

- University of Pisa, Italy – 2001-2014
- University of L'Aquila, Italy – 1997-2000
- University of Bonn, Germany 1991
- Institute for Foreign students, Sofia, Bulgaria

List of courses in Italy is given below: Списъкът на тези курсове в Италия е както следва:

- Corso di equazioni differenziali Modulo I, L'Aquila 1997-1999,
- Corso di equazioni differenziali Modulo II, L'Aquila 1997-1999,
- Corso di analisi II Matematica (L'Aquila 1997-1999),
- Corso di analisi II Informatica (Pisa 2000-2001),
- Corso di Teoria delle funzioni (Pisa 2000-2001),
- Corso C di Analisi Armonica (Laurea in Matematica, Pisa) 2001-2002,
- Corso C di Analisi (Laurea in Informatica, Pisa) 2002-2003,
- Corso di Analisi reale e armonica (Laurea in Matematica, Pisa) 2002-2003, 2003-2004, 2004-2005, 2005-2006, 2008-2009
- Corso di Analisi III (Laurea in Fisica, Pisa) 2003-2004, 2005-2006, 2012-2013
- Corso di Analisi I (Laurea in Fisica, Pisa) 2004-2005, 2006-2007
- Corso di Analisi II (Laurea in Fisica, Pisa) 2004-2005, 2006-2007
- Corso di Analisi IV (Laurea in Fisica, Pisa) 2005-2006,
- Corso di Elementi di Equazioni Differenziali alle Derivate Parziali (Laurea in Matematica, Pisa) 2006-2007, 2009-2010, 2010-2011.



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- Corso di Analisi Matematica (Laurea in Informatica) 2008-2009, 2009-2010, 2010-2011, 2012-2013
- Corso di Analisi Matematica I (Laurea in Ingegneria Edile-Architettura) 2009-2010
- Corso di Matematica e società (Laurea in Matematica) 2010-2011, 2011-2012, 2012-2013
- Matematica (Laurea in Geologia) 2010-2011
- Analisi Armonica (Laurea Magistrale in Matematica) 2011 – 2012, 2014-2015.
- Istituzioni di Analisi Matematica II (Laurea Magistrale in Matematica) 2011-2012
- Istituzioni di Matematica II (Laurea in Chimica) 2011-2012
- Analisi Matematica 1 (Laurea in Matematica) 2013-2014
- Analisi Matematica 2 (Laurea in Matematica) 2014-2015
- Analisi Matematica II (Laurea in Ingegneria Civile, Ambientale e Edile) 2013-2014
- Modelli Matematici in Biomedicina e Fisica Matematica (Laurea magistrale in Matematica) 2013-2014, 2014-2015

TEACHING – Courses for PhD Students

Courses for PhD students are presented in Bulgaria, Japan, Italy, Germany, Greece. The titles are listed below:

- Theory of Functions
- Equations of Math. Physics (Sofia – 2007)
- Nonlinear Hyperbolic equations (mini – course Cortona, Italy, summer 2002)
- Positive mass theorem (Bonn, Germany 1992)
- Nonlinear hyperbolic equations (summer school 1996 Sofia, Bulgaria)
- Equations of quantum mechanics
- Local energy decay for hyperbolic systems and equations Greece 1988),
- Dispersive estimates and stability of equations of quantum mechanics, Brescia, 2002.



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- Harmonic analysis on symmetric manifolds, (Pisa, 2002)
- Smoothing and Strichartz Estimates for the dispersive equations (Osaka, 2004)
- Hyperbolic equations of Mathematical Physics.
- Gibbs measures and equations of Math. Physics (Pisa, 2013)
- Course on Dispersive estimates and decay do 1D NLS, School" Nonlinear waves and dispersive PDEs"(GSSI, L'Aquila, 2014)

TEACHING – Work as advisor

List of PhD and master degree students: S. Lucente (Researcher University of Bary), N. Tzvetkov(Prof. University of Cergy - Pontoise, France), K. Ianakliev (PhD in Math and Informatics, USA), B. Iordanov (Institute of Mathematics, Bulgarian Academy of Sciences), R. Kirova (Institute of Mathematics, Bulgarian Academy of Sciences), K.Azgorov, F. Catalano (Professor High School Pescara, Italy) , S. Di Pomponio, G. Venkov (Associate Professor at Technical University,Sofia, Dean of Faculty of Applied Mathematics), N.Visciglia (Assistantship Position University of Pisa), S. Zappacosta (PhD Univ. L'Aquila), A. Ivanov (PhD University of Pisa), M.Tarulli (PhD University of Pisa), D.Catania (PhD University of Pisa), J.Mauro (PhD University of Pisa), Vittoria Pierfelice (Researcher in France), A.R. Giammetta (in the moment PhD student University of Pisa),
Advisor of master thesis of some other students: Francesco Ferrulli, Marco Ferrigo, Annalina Canderolo, Lars Eric Hientzsch, Raffaele Scandone, Michele Angelici, Ilenia Loppi, Aurora Armiento, Alberto Brudaglio, Isotta Landi, Luca Guidi, Manuel Antico, Matteo Ninceri, Roberta Evangelista.

TEACHING Post-doc mentoring.

- Charlotte Kerler (PhD University of Konstanz, now Manager)
- George Venkov (PhD Technical University of Sofia, now Associate Prof and Dean of Faculty of Applied Mathematics, Technical University of Sofia)



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- Nikolay Tzvetkov (now full professor, Univ. Cergy – Pontoise, France)
- Valeria Banica (now researcher in France),
- Mirko Tarulli (now post-doc at Department of Mathematics, University of Pisa)

TEACHING – work with future and in service teacher

Club “ Math talents in Tuscany” was founded. Participation in the activity “Unknown hero” together with prof. Rosana Prato. Work in problem posing labs, international mathematical competition via Internet with participation of Schools in Italy, Russia and Bulgaria. Books for dissemination and preparation of future and in service teachers:

- MEETING IN MATHEMATICS, 1st edition 2008, 2 edition 2013
- BRINGING MATHEMATICS TO EARTH, 1st edition 2010, 2 edition, 2013

POSITIONS OF RESPONSIBILITY

- Director of Graduate Course in Mathematics, University of Pisa – 18 October 2008 – 1 November 2012.
- Director of Master’s Course in Mathematics, University of Pisa – 18 October 2008 – 1 November 2012.
- Erasmus coordinator of the Department of Mathematics, University of Pisa- 2001-2007.

MANAGEMENT of PROJECTS

- Responsible of a Contract with Bulgarian Ministry of Education, Science and Technics for the period 1991-1997.
- ex-Responsible from the University of L'Aquila of Programma Nazionale M.U.R.S.T. “` Problemi e Metodi nella Teoria delle Equazioni Iperboliche.”1998-2000.
- ex-Responsible from the University of L'Aquila of Programma Nazionale M.U.R.S.T. Comportamento asintotico delle soluzioni delle equazioni nonlineari iperboliche 2000 - 2002.
- Resopnsabile del progetto INDAM, Intergruppo: Equazioni dispersive della fisica matematica, aspetti teorici e numerici, 2003.



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- Responsible from the University of Pisa of National Program PRIN "Well - posedness and decay estimates for dispersive equations and hyperbolic systems" 2005 - 2007.
- EU coordinator of Comenius 2.1 Project "Meeting in Mathematics" 2005-2008, partners: Aarhus University, Denmark, Vienna University, Austria, Institute of Mathematics, Bulgarian Academy of Sciences, Bulgaria
- Local EU coordinator of Comenius 2.1 Project "Bringing Mathematics to Earth" 2008-2010, partners: Aarhus University, Denmark, Vienna University, Austria, Institute of Mathematics, Bulgarian Academy of Sciences, Bulgaria, University of Nitra, Slovakia
- EU coordinator of Comenius 2.1 Project "Dynamical and creative mathematics using IT" 2010-2012, partners: Aarhus University, Denmark, Vienna University, Austria, Institute of Mathematics, Bulgarian Academy of Sciences, Bulgaria, University of Nitra, Slovakia, University of Reykjavik, Iceland
- Local EU coordinator of Comenius 2.1 Project "MEETING in Mathematics and Math2Earth: Common goals, common dissemination" 2012, partners: Aarhus University, Denmark, Vienna University, Austria, Institute of Mathematics, Bulgarian Academy of Sciences, Bulgaria, University of Nitra, Slovakia.

ORGANIZATION of CONFERENCES

- Workshop Nonlinear evolution problems, Sofia 1991
- Workshop on nonlinear hyperbolic equations, Sofia, 1995.
- Coorganizer of "Workshop on Nonlinear Parabolic and Hyperbolic Equations" Trieste, 1999.
- Univ di Pisa 1998.
- Workshop : Nonlinear evolution equations, L'Aquila, September 2000.
- L'Aquila 15-20 April 2001: "Da D'Alambert ad Einstein: analisi armonica e metodi geometrici nello studio di sistemi di equazioni delle onde nonlineari"
- L'Aquila September 2003: Workshop on Dispersive Equations in Mathematical Physics.
- INCONTRO DI FISICA MATEMATICA: Equazioni dispersive della fisica matematica, aspetti teorici e numerici, Novembre 2003.
- XI Incontro Nazionale sulle Equazioni Iperboliche PISA October 20-22, 2004.



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- 8th Workshop on Complex Structures and vector fields, Sofia, 2006.
- "Metodi e Problemi Matematici in Meccanica Quantistica"

Dipartimento di Matematica Pura ed , Università degli Studi di Modena e Reggio Emilia, Italy, 5 - 7 ottobre 2006.

- Meeting Pisa, Italy, 2007 "Stabilita' di solitoni" organized together with S. Terracini and N.Visciglia)
- ISAACS meeting Ankara, 2007, organizer (with T.Ozawa) of a session on Nonlinear Partial Differential Equations
- ISAACS meeting London, 2009, organizer of the session (together with T.Ozawa) Nonlinear PDE
- ISAACS meeting Krakow, 2013, organizer of the session (together with T.Ozawa) Nonlinear PDE
- Workshop Nonlinear PDE, Pisa, 1-2 august 2013
- 38th International Conference Applications of Mathematics in Engineering and Economics Sozopol, 8 - 13 June, 2012, member of the International Programme Committee
- 39th International Conference Applications of Mathematics in Engineering and Economics Sozopol, 8 - 13 June, 2013, member of the International Programme Committee.
- 40th International Conference Applications of Mathematics in Engineering and Economics Sozopol, 8 - 13 June, 2014, member of the International Programme Committee
- Summer School and Workshop: "Stability of Solitary waves" Pisa, 2014
- New Trends in the Applications of Differential Equations in Sciences (NTADES 2014), Sofia, Bulgaria.

EDITORIAL WORK

- Central European Journal of Mathematics
- European Journal of Mathematics
- Evolution Equations and Control Theory (EECT)
- Abstract and Applied Analysis
- Rendiconti dell'Istituto di Matematica dell'Università di Trieste



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SELECTED PUBLICATIONS

1. V. Georgiev, Disappearing solutions for dissipative hyperbolic systems of constant multiplicity, Hokkaido Math. J., 15(3), 1986, 357 - 385.
2. V. Georgiev, RAGE theorem for power bounded operators and local energy decay for moving obstacles, Ann. Inst. H.Poincaré, (Physique Théorique), 51(2), 1989, 155 - 185 (with V.Petkov).
3. V.Georgiev , Small amplitude solutions of the Maxwell - Dirac equations, Indiana Univ. Math. Journal, 40 (3) 1991, 845 - 883.
4. V.Georgiev, P.Schirmer, The asymptotic behaviour of Yang -- Mills fields in the large, Comm. Math. Phys. 148, 1992, 425 - 444.
5. V.Georgiev, Decay estimates for the Klein - Gordon equation, Comm. Part. Diff. Eq. 17(7 and 8), 1992, 1111 - 1139.
6. V.Georgiev, G. Todorova, Existence of solution of the wave equation with nonlinear damping and source terms, Journal Diff. Equations 109(2), 1994, 295 - 308.
V.Georgiev, P.Schirmer, Global existence of low regularity solutions of non-linear wave equations, Math. Zeitschrift,219, 1995, p.1-19.
7. M.Etseban, V.Georgiev, E.Sere, Solitary solutions of the Maxwell-Dirac and Klein-Gordon-Dirac equations, Calculus of Variations and Part. Diff. Eq. 4, 1996, p.265-281.
8. V.Georgiev, H.Linblad and C. Sogge Weighted Strichartz estimates and global existence for semilinear wave equation, Amer. J. Math. vol. 119(6), 1997, p.1291-1319.
9. C.Heimig, V.Georgiev, H.Kubo, Supercritical semilinear wave equation with non-negative potential, Comm. Part. Diff. Equations, V. 26 , Issue 11,12, 2001.
10. P.D'Ancona, V.Georgiev, H.Kubo, Weighted decay estimates for the wave equation, Journal Diff. Equations, Vol. 177, No. 1, November 20, 2001, p. 146-208
11. V.Georgiev, Nonlinear hyperbolic equations in mathematical physics, Japanese Math. Society, 2000, 255p.
12. V.Georgiev , N.Visciglia, Decay estimates for the wave equation with potential, Comm. Part. Diff. Eq. vol.28 No. 7,8 (2003) p. 1325 - 1369.
13. V.Georgiev, P.D'Ancona, Low regularity solutions for the wave map equation into the 2-D sphere, Math. Zetschrift, Volume 248, Number 2 (2004) p. 227-266.
14. V.Georgiev, P.D'Ancona, On the continuity of the solution operator to the wave map system, CPAM. 57 (2004), no. 3, 357-383.
15. V.Georgiev, B.Rubino, R.Sampalmieri, Global existence for elastic waves with memory, Arcive Rat. Mech. Anal. 176 (2005) p.303-330.
16. Georgiev, Vladimir; Visciglia, Nicola Solitary waves for Klein-Gordon-Maxwell system with external Coulomb potential. J. Math. Pures Appl. (9) 84 (2005), no. 7, 957-983.
17. V.Georgiev, H.Takamura, Zhou Yi, The lifespan of solutions to nonlinear systems of high dimensional wave equation, Nonlinear Analysis 64 (2006) 2215 - 2250.
18. V.Georgiev, M.Tarulli, Scale invariant energy smoothing estimates for the Schrödinger Equation with small Magnetic Potential, Asymptotic Analysis, 47 (2006), 107 -138.
19. D. Catania, V. Georgiev, Blow Up for the Semilinear Wave Equation in Schwarzschild Metric, Diff. Int. Equations, vol.19(7) 2006 p. 799 - 830.



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20. V.Georgiev, A.Stefanov, M.Tarulli, Smoothing - Strichartz Estimates for the Schrödinger Equation with small Magnetic Potential, Discrete and Continuous Dynamical Systems 2007, A18, p.159 - 186.
21. V.Georgiev, F.Prinari, N.Visciglia, On the radially of constrained minimizers to the Schroedinger-Poisson-Slater energy, Annales de l'Institut Henri Poincare. Annales: Analyse Non Lineaire/Nonlinear Analysis 29 (3), (2012) , pp. 369-376.
22. V.Georgiev, M.Ohta, Nonlinear instability of linearly unstable standing waves for nonlinear Schrodinger equations, Journal of the Mathematical Society of Japan 64 (2), (2012) , pp. 533-548.
23. V. Georgiev, A. Stefanov, Global regularity for the quadratic Klein-Gordon equation in R^{1+2} , CPDE 2013 38 (8) , pp. 1287 – 1312.
24. S. Cuccagna, V. Georgiev, N. Visciglia, Decay and scattering of small solutions of pure power NLS in R with $p>3$ and with a potential, CPAM, vol 67(6) 957 - 981, June 2014.
25. V. Georgiev, E. Stepanov, Metric cycles, curves and solenoids, Discrete and Continuous Dynamical Systems- Series A Volume 34, Issue 4, April 2014, Pages 1443-1463.

FUNDING and ACADEMIC AWARDS

- International Mathematical Olympiad 1974, Berlin, East Germany, bronze medallist.
- Award of Balkan Mathematical Union for young researchers, 1987.
- Humboldt fellowship at Institute for Applied Mathematics, University of Bonn, 1990-1992, resp. prof. R. Leiss.
- Associate Member of the International Center for Theoretical Physics, Trieste, Italy, 1990-1992

Selected INVITED ADDRESSES

- University of Bordeaux, France - 1987, 1990, 2000, 2006, 2007
- LOMI, Leningrad, USSR - 1989
- University of Bonn, Germany Workshop on Nonlinear Hyperbolic Problems, Bonn 1990 talk: Global existence for Maxwell – Dirac system, 1993,
- International Center Theoretical Physics, Trieste, Italy, 1990, 1993, 1994, 1995.
- Hokkaido University, Conference "Nonlinear Waves"- Sapporo, Japan, talk: "On critical exponent in the Strauss conjecture" 1995.
- Göteborg University, Sweden, talk: Global existence of small data solutions for semilinear wave equation", 1996.
- University Paris - Sud, Orsay, Paris, France, 1996.
- Tsukuba University, Japan, 1997.



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- Workshop on qualitative properties for nonlinear hyperbolic operators-degeneracy, nonlocal terms and global solvability, Seiffen, 1998 Germany
- Waseda University, Tokyo, Japan, 2000
- Workshop on Visco-termo-elasticity, Konstanz , Germany 2000, June.
- Obervolfach, Germany, Maggio 2001.
- Journées EDP 2001 Plestin Les Greves France
- Obervolfach May 25-31 2003 Nonlinear evolution problems,
- Joint Meeting between the AMS and the RSME, June 18-21, 2003 Seville, Spain, Talk on the Special session : Nonlinear Dispersive Equations
- Canada, Toronto 11-16 August 2003 Plenary Speaker of Fourth ISAAC Congress York University, talk on Apriori estimates for the wave equation with potential
- Obervolfach October 2004 Nonlinear waves and dispersive equations.
- Osaka University, Japan, 2004
- Hokkaido University, Sapporo, Japan, 2005, 37th Sapporo Symposium on Partial Differential Equations, talk: "Smoothing - Strichartz estimates for the Schrödinger equation with small magnetic potential"
- Obervolfach May 29th - June 4th, 2005 Nonlinear evolution problems, Talk: Strichartz estimates for the wave equation with a magnetic potential.
- June 6 - 10 June 2005 Forges-les-Eaux, France, Talk, Smoothing and Strichartz estimates for the Schrödinger equations.
- June 16 - 19 2005 Mainz Meeting AMS-DMV, Talk: Talk, On Smoothing and Strichartz estimates for the Schrödinger equations with magnetic potential.
- Catania 2005, Luglio 25-30 Speaker of Fifth ISAAC Congress
- Hokkaido 3-5 August 2006, Meeting in honor of Prof. Kubota
- Obervolfach, 2008, Nonlinear Evolution Equations
- Obervolfach, 2008, Mini-Workshop: Attraction to Solitary Waves and Related Aspects of Physics.
- Saitama, Japan, February, 2010, RIMS workshop "Stability of Solitary Waves and Variational Problems", talk: " Some spectral properties associated with some stable soliton linearizations"
- Kansas University, USA, 2010



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- Göttingen, Germany 2010, International Workshop "Fourier Analysis and Partial Differential Equations", talk: "Resonances and local energy decay near solitary solutions"
- Future University Hakodate, Japan 2012
- Waseda University, Workshop "Mathematical Fluid Dynamics and Nonlinear Wave", 2012, talk: "Far field representation of solitary waves for scalar fields"
- Hokkaido University, Sapporo, Japan, talk: "Decay and scattering of small solutions of power NLS with a potential", 37th Sapporo Symposium on Partial Differential Equations (In memory of Professor Rentaro Agemi), 2012
- 15th International Conference on Hyperbolic Equation, Rio de Janeiro, August 2014, invited talk: "Asymptotic profile for solution of cubic 1-D Schrödinger equation with rapidly decreasing potential"

PROFESSIONAL MEMBERSHIPS

Member of Unione Matematica Italiana
Member of Bulgarian Union of Mathematicians
Member of ISAAC.



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Appendix A: Detailed List of publications

1. V. Georgiev, Inverse scattering problem for symmetric strictly hyperbolic systems, *Compt. Rend. Acad. Bulg. Sci.* 35(5), 1982, 593 -- 596.
2. V. Georgiev, Disappearing solutions of symmetric strictly hyperbolic systems, *Compt. Rend. Acad. Bulg. Sci.* 36(2), 1983, 323 -- 324.
3. V. Georgiev, A uniqueness theorem of Holmgren's type for first order systems, *Compt. Rend. Acad. Bulg. Sci.* 37(6), 1984, 733 -- 736.
4. J. Arnaoudov, V. Georgiev, Construction of smooth basis depending on a parameter, *Higher School Appl. Math.* 20(2), 1984, 27 -- 30
5. J. Arnaoudov, V. Georgiev, Construction of a real analytic basis for matrices with real analytic elements, *Higher School Appl. Math.* 20(2), 1984, 32 -- 35.
6. V. Georgiev, Wave fronts of solutions to boundary problems for symmetric dissipative systems, *Serdica*, 10, 1984, 41 -- 48.
7. V. Georgiev, Existence and completeness of the wave operators for dissipative hyperbolic systems of constant multiplicity, *Compt. Rend. Acad. Bulg. Sci.* 38(6), 1985, 667 -- 670.
8. V. Georgiev, High frequency asymptotics of the filtered scattering amplitudes and the inverse scattering problem for dissipative hyperbolic systems, I part, *Math. Nachr.*, 117, 1985, 111 -- 128, II part, *Math. Nachr.* 122, 1985, 267 -- 275.
9. V. Georgiev, The Kreiss condition for dissipative hyperbolic systems of constant multiplicity, *Boll. Un. Math. It.*, (6) 3 - B, 1984, 383 - 395.
10. V. Georgiev, Controllability of the scattering operator for dissipative hyperbolic systems, *Math. Nachr.*, 122, 1985, 339 - 346.
11. V. Georgiev, Interior solution of Einstein's equations for hydrogen atom, *Diff. eq. and applications*, Ruse 1985, p. 635 - 638, Angel Kanchev Tech. Univ, Ruse 1987.
12. V. Georgiev, Existence and completeness of the wave operators for dissipative hyperbolic systems, *J. Operator Theory*, 14, 1985, 291 - 310.
13. V. Georgiev, Disappearing solutions for dissipative hyperbolic systems of constant multiplicity, *Hokkaido Math. J.*, 15(3), 1986, 357 - 385.
14. V. Georgiev, Existence of the scattering operator for dissipative hyperbolic systems with variable multiplicity, *J. Operator Theory*, 19, 1988, 217 - 241 (with P. Stefanov).
15. V. Georgiev, Leading singularity of the scattering kernel for the Maxwell equations outside moving obstacles, *Compt. Rend. Acad. Bulg. Sci.* 41(10), 1988, 17 -- 20.
16. V. Georgiev, Global existence of solution to the semilinear heat equation, *Compt. Rend. Acad. Bulg. Sci.*, 42(6), 1989, 21 - 24. (with M. Marinov)
17. V. Georgiev, Global solution to the Maxwell - Dirac equations, *Compt. Rend. Acad. Bulg. Sci.*, 42(6), 1989, 17-20.
18. V. Georgiev, Leading term of the solution to the Klein - Gordon equation, *Compt. Rend. Acad. Bulg. Sci.*, 42(12), 1989, 25 - 28.
19. V. Georgiev, A weighted estimate of the solution to the wave equation, *Compt. Rend. Acad. Sci. Bulg.* 42(11), 1989, 17 - 20 (with V. Covachev).



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20. V. Georgiev, Théorème de type RAGE pour des opérateurs à puissances bornées, *Compt. Rend. Acad. Sci. Paris*, 303, Série I, No. 13, 1986, 605 -- 608 (with V.Petkov).
21. V. Georgiev, Local energy decay for the wave equation and hyperbolic systems, *Publ. of Patras Univ., Patras*, 1986, 31 - 54.
22. V. Georgiev, Inverse scattering problem for the Maxwell equations outside moving body, *Ann. Inst. H.Poincaré, (Physique Théorique)*, 50(1), 1988, 1 -- 34.
23. V. Georgiev, RAGE theorem for power bounded operators and local energy decay for moving obstacles, *Ann. Inst. H.Poincaré, (Physique Théorique)*, 51(2), 1989, 155 - 185 (with V.Petkov).
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UNIVERSITÀ DI PISA

**DIPARTIMENTO
DI MATEMATICA**

Prof. Vladimir Georgiev
Dipartimento di Matematica
Università degli Studi di Pisa
Largo Pontecorvo 5
56127 Pisa
Italy
tel.: +39 - 050 2213 301
fax: +39 - 050 2213 224
email: georgiev@dm.unipi.it

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**DIPARTIMENTO
DI MATEMATICA**

Prof. Vladimir Georgiev
Dipartimento di Matematica
Università degli Studi di Pisa
Largo Pontecorvo 5
56127 Pisa
Italy
tel.: +39 - 050 2213 301
fax: +39 - 050 2213 224
email: georgiev@dm.unipi.it

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**DIPARTIMENTO
DI MATEMATICA**

Prof. Vladimir Georgiev
Dipartimento di Matematica
Università degli Studi di Pisa
Largo Pontecorvo 5
56127 Pisa
Italy
tel.: +39 - 050 2213 301
fax: +39 - 050 2213 224
email: georgiev@dm.unipi.it

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DI MATEMATICA**

Prof. Vladimir Georgiev
Dipartimento di Matematica
Università degli Studi di Pisa
Largo Pontecorvo 5
56127 Pisa
Italy
tel.: +39 - 050 2213 301
fax: +39 - 050 2213 224
email: georgiev@dm.unipi.it

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APPENDIX B: Detailed list of INVITED ADDRESSES

- University of Patras, Greece - 1986,
- University of Bordeaux, France - 1987, 1990, 2000,2006,2007
- LOMI, Leningrad, USSR - 1989
- University of Bonn, Germany Workshop on Nonlinear Hyperbolic Problems, Bonn 1990 talk: Global existence for Maxwell – Dirac system, 1993,
- International Center Theoretical Physics, Trieste, Italy, 1990, 1993, 1994, 1995.
- Free University, Brussels, Belgium, 1994.
- Hokkaido University, Conference "Nonlinear Waves"- Sapporo, Japan, talk: "On critical exponent in the Strauss conjecture" 1995.
- Göteborg University, Sweden, talk: Global existence of small data solutions for semilinear wave equation", 1996.
- University Paris - Sud, Orsay, Paris, France, 1996.
- Tsukuba University, Japan, 1997.
- Workshop on qualitative properties for nonlinear hyperbolic operators-degeneracy, nonlocal terms and global solvability, Seiffen, 1998 Germany
- Waseda University, Tokyo, Japan, 2000
- Workshop on Visco-termo-elasticity, Konstanz , Germany 2000, June.
- Brescia 2000 VIII Incontro Nazionale sui Problemi di Tipo Iperbolico, Brescia 2000.
- Obervolfach, Germany, Maggio 2001.
- Journées EDP 2001 Plestin Les Greves France



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**DIPARTIMENTO
DI MATEMATICA**

Prof. Vladimir Georgiev
Dipartimento di Matematica
Università degli Studi di Pisa
Largo Pontecorvo 5
56127 Pisa
Italy
tel.: +39 - 050 2213 301
fax: +39 - 050 2213 224
email: georgiev@dm.unipi.it

- Obervolfach May 25-31 2003 Nonlinear evolution problems,
- Joint Meeting between the AMS and the RSME, June 18-21, 2003 Seville, Spain, Talk on the Special session : Nonlinear Dispersive Equations
- Canada, Toronto 11-16 August 2003 Plenary Speaker of Fourth ISAAC Congres York University, talk on Apriori estimates for the wave equation with potential
- University of Nantes, May 2004.
- Elba Meeting 2004 in Honour of Y. Choquet-Bruhat, June 24-26, 2004.
- Obervolfach October 2004 Nonlinear waves and dispersive equations.
- University of Nantes, France , 2004.
- Osaka University, Japan, 2004
- Hokkaido University, Sapporo, Japan, 2005, 37th Sapporo Symposium on Partial Differential Equations, talk: "Smoothing - Strichartz estimates for the Schrödinger equation with small magnetic potential"
- Obervolfach May 29th - June 4th, 2005 Nonlinear evolution problems, Talk: Strichartz estimates for the wave equation with a magnetic potential.
- June 6 - 10 June 2005 Forges-les-Eaux, France, Talk, Smoothing and Strichartz estimates for the Schrodinger equations.
- June 16 - 19 2005 Mainz Meeting AMS-DMV, Talk: Talk, On Smoothing and Strichartz estimates for the Schrödinger equations with magnetic potential.
- Catania 2005, Luglio 25-30 Speaker of Fifth ISAAC Congres
- Imperial College London, 2005
- Hokkaido 3-5 Aughust 2006, Meeting in honor of Prof. Kubota
- FMI Conference "The pioneers of Bulgarian mathematics", 8 – 10, July, 2006, talk:" Nonexistence of Nonzero Resonances for Schrödinger Operators with Singular Perturbations" , FMI, J. Bourcher 5, Sofia
- BG-SIAM, Meeting, Sofia, Bulgaria, 2007, talk: "Global solution for the Maxwell-Schrödinger system"
- University of Vienna, Austria, 2007



UNIVERSITÀ DI PISA

**DIPARTIMENTO
DI MATEMATICA**

Prof. Vladimir Georgiev
Dipartimento di Matematica
Università degli Studi di Pisa
Largo Pontecorvo 5
56127 Pisa
Italy
tel.: +39 - 050 2213 301
fax: +39 - 050 2213 224
email: georgiev@dm.unipi.it

- University of Aarhus, Denmark, 2007
- Oberwolfach, 2008, Nonlinear Evolution Equations
- Oberwolfach, 2008, Mini-Workshop: Attraction to Solitary Waves and Related Aspects of Physics.
- Saitama, Japan, February, 2010, RIMS workshop "Stability of Solitary Waves and Variational Problems", talk: "Some spectral properties associated with some stable soliton linearizations"
- Kansas University, USA, 2010
- Göttingen, Germany 2010, International Workshop "Fourier Analysis and Partial Differential Equations", talk: "Resonances and local energy decay near solitary solutions"
- Future University Hakodate, Japan 2012
- Waseda University, Workshop "Mathematical Fluid Dynamics and Nonlinear Wave", 2012, talk: "Far field representation of solitary waves for scalar fields"
- Hokkaido University, Sapporo, Japan, talk: "Decay and scattering of small solutions of power NLS with a potential", 37th Sapporo Symposium on Partial Differential Equations (In memory of Professor Rentaro Agemi), 2012
- Eight Annual Meeting of the Bulgarian Section of SIAM, Sofia, 2013, talk "On regularity of the solution map for the cubic 1d periodic half - wave equation".
- 39th International Conference Applications of Mathematics in Engineering and Economics Sozopol, 8 - 13 June, 2013, "Minimization of Hartree type functionals"
- CIRM Conference 2014, Levico Terme (Trento), Italy, Recent Advances in PDEs and Applications, talk: "On regularity of the solution map for the cubic 1d periodic half - wave equation"
- Trieste, 2014, Recent Trends in Nonlinear Partial Differential Equations and Applications, talk "On properties of the solution map for the cubic 1d periodic half - wave equation"
- 15th International Conference on Hyperbolic Equation, Rio de Janeiro, invited talk: "Asymptotic profile for solution of cubic 1-D Schrödinger equation with rapidly decreasing potential"



UNIVERSITÀ DI PISA

**DIPARTIMENTO
DI MATEMATICA**

Prof. Vladimir Georgiev
Dipartimento di Matematica
Università degli Studi di Pisa
Largo Pontecorvo 5
56127 Pisa
Italy
tel.: +39 - 050 2213 301
fax: +39 - 050 2213 224
email: georgiev@dm.unipi.it

- International Conference, "Mathematical days in Sofia", 2014, talk: "On cubic 1-D Schrödinger equation with rapidly decreasing potential"
- New Trends in the Applications of Differential Equations in Sciences (NTADES 2014), Sofia, Bulgaria, "Sectorial Hamiltonians without zero resonance in one dimension"