

CURRICULUM VITAE OF BENJAMIN STAMM

PERSONAL INFORMATION:

Stamm, Benjamin:

Researcher ID: B-5784-2014

Date of birth: 22/03/1980

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EDUCATION:

- 2008 Ph.D. in Mathematics at École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
Title: "Stabilization Strategies for Discontinuous Galerkin Methods"
Advisor: Prof. A. Quarteroni, co-adviser: Prof. E. Burman
Date: 11/07/2008
- 2005 M.Sc. in Mathematics at EPFL, Switzerland

CURRENT POSITION:

- 2012 – present Professor at Dept. of Mathematics and Center for Computational Engineering Science, RWTH Aachen University

PREVIOUS POSITIONS:

- 2012 – 2016 Assistant professor (Maître de conférences) at Sorbonne Université, UPMC Univ Paris 06 and CNRS, France
- 2010 – 2012 Charles B. Morrey Visiting Assistant Professor, Department of Mathematics, University of California, Berkeley, USA
- 2010 – 2012 Visiting Faculty at the Lawrence Berkeley National Laboratory, Berkeley, USA
- 2008 – 2010 Post-doctoral research associate at Brown University at the Division of Applied Mathematics in the chair of Prof. J.S. Hesthaven

FELLOWSHIPS AND AWARDS:

- 2012 – present Recipient of a "Chaire CNRS - Enseignement supérieur"
- 2008 – 2009 Swiss National Science Foundation, Prospective Researcher Fellowship
- 2009 Finalist of the EPFL doctorate Award 2009: ranking among the best 3% PhD theses awarded by EPFL in 2008
- 2005 – 2006 EPFL, Doctoral School Research Fellowship

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS:

- 2014 – present PhD: Co-adviser of Chaoyu Quan, Sorbonne Université UPMC, Univ Paris 06, France
- 2014 – present Post-doc: Co-adviser of Antoine Levitt, Sorbonne Université UPMC, Univ Paris 06, France
- 2013 – present Post-doc: Co-adviser of Filippo Lipparini, Sorbonne Université UPMC, Univ Paris 06, France

TEACHING ACTIVITIES:

- 2012, 2015 Guest-lecturer at ETH Zürich for CSE/RW-program (1 lecture) / ETH Zürich / Switzerland
- 2014 Lecturer of the Jacques-Louis Lions Spanish-French School on Numerical Simulation in Physics and Engineering (EHF2014) / Public University of Navarra / Spain
- 2014–2015 Introduction to C++ programming and introduction to PDE's (MM031), Discontinuous Galerkin methods and applications (NM466) / Sorbonne Université UPMC, Univ Paris 06 / France
- 2013 Introduction to C++ programming and introduction to PDE's (MM031) / Sorbonne Université UPMC, Univ Paris 06 / France
- 2012 Basic informatics/Introduction to C++ programming (MM009) / Sorbonne Université UPMC, Univ Paris 06 / France
- 2012 Lecturer of the Zürich Summer School (ZSS12) / ETH Zürich and University of Zürich / Switzerland
- 2012 Introduction to Analysis (Math 104) / University of California, Berkeley / USA
- 2011 Introduction to Partial Differential Equations (Math 126), Multivariable Analysis (honors, Math H53), Complex Analysis (Math 185) / University of California, Berkeley / USA
- 2010 Introduction to Analysis (Math 104), Complex Analysis (Math 185) / University of California, Berkeley / USA
- 2010 An introduction to the reduced basis method (short lecture) / University of Maryland / USA
- 2009 Special topic course *A posteriori* estimates for finite element methods" (doctoral school) / Brown University / USA
- 2007 Co-lecturer - Error estimates for stabilized finite element methods (doctoral school) / EPFL / Switzerland
- 2006, 2007 Teaching assistant - Introduction to the finite element method / EPFL / Switzerland
- 2006 – 2008 Teaching assistant - Numerical analysis for mathematicians' / EPFL / Switzerland
- 2005 Teaching assistant - Analysis III / EPFL / Switzerland
- 2005 Teaching assistant- Numerical analysis for engineers / EPFL / Switzerland

ORGANISATION OF SCIENTIFIC MEETINGS:

- 2015 Organizer of a one-day workshop on the coupling of atomistic with continuum models
- 2015 Organizer of a mini-symposium at the Enumath Conference held in Ankara
- 2015 Organizer of a mini-symposium upon invitation at the 26th Biennial Numerical Analysis Conference held at the University of Strathclyde
- 2015 Organizer of a mini-symposium at the PASC Conference held at ETH Zürich
- 2014 Co-organizer of a mini-symposium at the ICOSAHOM 2014/ USA
- 2014 Co-organizer of a mini-symposium at the CANUM 2014 congress / France
- 2009 Co-organizer of the Brown-Paris 6 video-conference seminar, Brown University, USA
- 2007 Member of organization committee of Mini-Workshop on Variational Multiscale Methods and Stabilized Finite Elements, EPFL, Switzerland

REVIEWING ACTIVITIES:

2007 – present Reviewer for SIAM J. Numer. Anal., SIAM J. Sci. Comput., J. Comput. Phys., IMA J. Numer. Anal., Appl. Math. Comput., ESAIM-Math. Model. Num., IEEE T. Microw. Theory, Appl. Numer. Math., Eng. Anal. Bound. Elem., COMPEL, IMA J. Appl. Math., Int. J. Numer. Meth. Eng., Numerische Mathematik

BOOKS:

- [B1] J. S. Hesthaven, G. Rozza, B. Stamm, *Certified Reduced Basis Methods for Parametrized Partial Differential Equations*, BCAM SpringerBriefs (2016).

PUBLICATIONS:

- [J34] R. H. Nochetto, B. Stamm, *A Posteriori Error Estimates for the Electric Field Integral Equation on Polyhedra*, arXiv:1204.3930 [math.NA]
- [J33] E. Cancès, G. Dusson, Y. Maday, B. Stamm, M. Vohralík, *A perturbation-method-based post-processing for the planewave discretization of Kohn-Sham models*, accepted in **J. Comput. Phys.**
- [J32] L. Lin, B. Stamm, *A posteriori error estimates for discontinuous Galerkin methods using non-polynomial basis functions. Part I: Second order linear PDE*, accepted in **ESAIM-Math. Model. Num.**
- [J31] B. Stamm, E. Cancès, F. Lipparini, Y. Maday, *A new discretization for the Polarizable Continuum Model within the domain decomposition paradigm*, **J. Chem. Physics**, Vol. 144, 054101 (2016)
- [J30] E. Cancès, V. Ehrlacher, F. Legoll, B. Stamm, *An embedded corrector problem to approximate the homogenized coefficients of an elliptic equation*, **C. R. Acad. Sci. Paris**. Vol. 353, No. 9, pp. 801-806 (2015)
- [J29] L. Lagardère, F. Lipparini, E. Polack, B. Stamm, E. Cancès, M. Schnieders, P. Ren, Y. Maday, J.-P. Piquemal, *Scalable Evaluation of Polarization Energy and Associated Forces in Polarizable Molecular Dynamics: II. Towards Massively Parallel Computations using Smooth Particle Mesh Ewald*, **J. Chem. Theory Comput.** Vol. 11, No. 6, pp. 2589-2599 (2015)
- [J28] S. Caprasecca, S. Jurinovich, L. Lagardère, B. Stamm, F. Lipparini, *Achieving linear scaling in computational cost for a fully polarizable MM/Continuum embedding*, **J. Chem. Theory Comput.** Vol. 11, No. 2, pp. 694-704 (2015)
- [J27] F. Lipparini, L. Lagardère, Ch. Raynaud, B. Stamm, E. Cancès, B. Mennucci, M. Schnieders, P. Ren, Y. Maday, J.-P. Piquemal, *Polarizable Molecular Dynamics in a Polarizable Continuum Solvent*, **J. Chem. Theory Comput.** Vol. 11, No. 2, pp. 623-634 (2015)
- [J26] B. Stamm, T. P. Wihler, *A Total Variation Discontinuous Galerkin Approach for Image Restoration*, **Int. J. Numer. Anal. Mod.** Vol. 12, No. 1, pp. 81-93 (2015)
- [J25] F. Lipparini, G. Scalmani, L. Lagardère, B. Stamm, E. Cancès, Y. Maday, J.-P. Piquemal, M. Frisch and B. Mennucci, *Quantum, Classical and Hybrid QM/MM Calculations in Solution: General Implementation of the ddCOSMO Linear Scaling Strategy*, **J. Chem. Phys.** Vol. 141, pp. 184108 (2014)
- [J24] E. Cancès, G. Dusson, Y. Maday, B. Stamm, M. Vohralík, *A perturbation-method-based a posteriori estimator for the planewave discretization of nonlinear Schrödinger equations*, **C. R. Acad. Sci. Paris** Vol. 352, No. 11, pp. 941-946 (2014)
- [J23] F. Lipparini, L. Lagardère, B. Stamm, E. Cancès, M. Schnieders, P. Ren, Y. Maday, J.-P. Piquemal, *Scalable evaluation of the polarization energy and associated forces in polarizable molecular dynamics: I. towards massively parallel direct space computations*, **J. Chem. Theory Comput.** Vol. 10, No. 4, pp. 1638-1651 (2014)
- [J22] F. Lipparini, L. Lagardère, G. Scalmani, B. Stamm, E. Cancès, Y. Maday, J.-P. Piquemal, M. J. Frisch, and B. Mennucci, *Quantum calculations in solution for large to very large molecules: a new linear scaling QM/continuum approach*, **J. Phys. Chem. Lett.** Vol. 5, No. 6, pp. 953-958 (2014)

- [J21] M. Bebendorf, Y. Maday, B. Stamm, *Comparison of some reduced representation approximations*, **Springer MS&A series**, Vol. 8: Reduced Order Methods for modeling and computational reduction, pp. 67-100 (A. Quarteroni, G. Rozza, Eds), (2014)
- [J20] J. Hesthaven, B. Stamm, S. Zhang, *Efficient greedy algorithms for high-dimensional parameter spaces with applications to empirical interpolation and reduced basis methods*, **ESAIM-Math. Model. Num.**, Vol. 48, pp. 259-283 (2014)
- [J19] Y. Maday, B. Stamm, *Locally adaptive greedy approximations for anisotropic parameter reduced basis spaces*, **SIAM J. Sci. Comput.**, Vol. 35, No. 6, pp. A2417-A2441 (2013)
- [J18] F. Lipparini, B. Stamm, E. Cancès, Y. Maday, B. Mennucci, *Fast Domain Decomposition Algorithm for Continuum Solvation Models: Energy and First Derivatives*, **J. Chem. Theory Comput.**, Vol. 9, No. 8, pp. 3637-3648 (2013)
- [J17] E. Cancès, Y. Maday, B. Stamm, *Domain decomposition for implicit solvation models*, **J. Chem. Phys.**, Vol. 139, No. 5, pp. 054111 (2013)
- [J16] J.L. Eftang, B. Stamm, *Parameter multi-domain "hp" empirical interpolation*, **Int. J. Numer. Meth. Eng.**, Vol. 90, No. 4, pp. 412-428 (2012)
- [J15] J. Hesthaven, B. Stamm, S. Zhang, *Certified Reduced Basis Method for the Electric Field Integral Equation*, **SIAM J. Sci. Comput.**, Vol. 34, No. 3, pp. A1777-A1799 (2012)
- [J14] M. Ganesh, J. Hesthaven, B. Stamm, *A reduced basis method for multiple electromagnetic scattering in three dimensions*, **J. Comput. Phys.**, Vol. 231, No. 23, pp. 7756-7779 (2012)
- [J13] B. Stamm, *A posteriori estimates for the Bubble Stabilized Discontinuous Galerkin Method*, **J. Comput. Appl. Math.**, Vol. 235, No. 15, pp. 4309-4324 (2011)
- [J12] M. Fares, J. Hesthaven, Y. Maday, B. Stamm, *Reduced Basis Method for the parametrized Electric Field Integral Equation*, **J. Comput. Phys.**, Vol. 230, No. 14, pp. 5532-5555 (2011)
- [J11] E. Burman, B. Stamm, *Bubble Stabilized Discontinuous Galerkin Methods on conforming and non-conforming meshes*, **Calcolo**, Vol. 48, No. 2, pp. 189-209 (2011)
- [J10] B. Stamm, T. P. Wihler, *hp-optimal discontinuous Galerkin methods for linear elliptic problems*, **Math. Comp.**, Vol. 79, pp. 2117-2133 (2010)
- [J9] E. Burman, A. Quarteroni, B. Stamm, *Interior penalty continuous and discontinuous finite element approximations of hyperbolic equations*, **J. Sci. Comput.**, Vol. 43, No. 3, pp. 293-312 (2010)
- [J8] E. Burman, B. Stamm, *Bubble stabilized discontinuous Galerkin method for the Stokes problem*, **Math. Models Appl. Sci.**, Vol. 20, No. 2, pp. 297-313 (2010)
- [J7] E. Burman, B. Stamm, *Bubble stabilized discontinuous Galerkin method for parabolic and elliptic problems*, **Num. Math.**, Vol. 116, No. 2, pp. 213-241 (2010)
- [J6] E. Burman, B. Stamm, *Local discontinuous Galerkin method for diffusion equations with reduced stabilization*, **Commun. Comput. Phys.**, Vol. 5, pp. 498-514 (2009)
- [J5] E. Burman, B. Stamm, *Symmetric and non-symmetric discontinuous Galerkin methods stabilized using bubble enrichment*, **C. R. Acad. Sci. Paris, SOr.I**, Vol.346, No.1-2, pp.103-106 (2008)
- [J4] E. Burman, A. Quarteroni, B. Stamm, *Stabilization strategies for high order methods for transport dominated problems*, **Bollettino U.M.I.**, Series IX, Vol. 1, No. 1, pp. 57-77 (2008)
- [J3] E. Burman, B. Stamm, *Low order discontinuous Galerkin methods for second order elliptic problems*, **SIAM J. Numer. Anal.**, Vol. 47, No. 1, pp. 508-533 (2008)
- [J2] E. Burman, B. Stamm, *Minimal stabilization of discontinuous Galerkin finite element methods for hyperbolic problems*, **J. Sci. Comput.**, Vol. 33, No. 2, pp. 183-208 (2007)
- [J1] E. Burman, A. Ern, I. Mozolevski, B. Stamm, *The symmetric discontinuous Galerkin method does not need stabilization in 1D for polynomial orders $p \geq 2$* , **C. R. Acad. Sci. Paris, SOr. I**, Vol. 345, No. 10, pp. 599-602 (2007)

PUBLICATIONS:

- [R1] R. H. Nochetto, B. Stamm, *A Posteriori Error Estimates for the Electric Field Integral Equation on Polyhedra*, arXiv:1204.3930 [math.NA]

THESES:

- [T2] B. Stamm, *Stabilization Strategies for Discontinuous Galerkin Methods*, PhD Thesis, EPFL No. 4135 (2008)
- [T1] B. Stamm, *Spectral Discontinuous Galerkin Method for Hyperbolic Problems*, Master Thesis, EPFL (2005)

PLENARY AND WORKSHOP TALKS:

- o *A posteriori estimates for plane-wave approximations of nonlinear Schrödinger equations*, Reliable Methods of Mathematical Modeling (RMMM), University of Zürich (Switzerland), 01/07/15
- o *Mathematics meets chemistry: a new paradigm for implicit solvation models*, Journées inaugurales de la machine de calcul, LJLL UPMC (France), 11/06/2015
- o *A perturbation-method-based post-processing for planewave approximations of nonlinear Schrödinger equations*, Oberwolfach Workshop "New Discretization Methods for the Numerical Approximation of PDEs" 2015 (Germany), 15/01/2015
- o *A posteriori error estimation for non-linear eigenvalue problems in the context of DFT- methods*, Horizon Math days 2014 at IFPEN, Rueil-Malmaison (France), 15/12/2014
- o *A posteriori error estimates for discontinuous Galerkin methods using non-polynomial basis functions*, EPSRC Durham Symposium on "Building Bridges: Connections and Challenges in Modern Approaches to Numerical Partial Differential Equations", Durham University (UK), 10/07/2014
- o *Comparison of some Reduced Representation Approximations*, CIRM Workshop Model Reduction and Approximation for Complex Systems 2013, Luminy (France), 13/06/2013
- o *Certified Reduced Basis Methods for Integral Equations with Applications to Electromagnetics*, High-Order Numerical Approximation for Partial Differential Equations, Hausdorff Center for Mathematics, Bonn (Germany), 06/02/2012–10/02/2012
- o *Reduced Order Modeling for Scattering Problems*, New England Numerical Analysis Day 2010, Worcester Polytechnic Institute, Worcester MA (USA), 08/05/2010

INVITED SEMINARS:

- o *Mathematics meets chemistry: a new paradigm for implicit solvation models*, The computational nanoscience group, University of Nottingham (UK), 21/05/15
- o *A perturbation-method-based post-processing of planewave approximations for DFT Kohn-Sham models*, Applied Math Seminar, UC Berkeley (USA), 29/04/15
- o *Mathematics meets chemistry: a new paradigm for implicit solvation models*, Poems seminar, Ensta Paristech (France), 18/12/14
- o *Une méthode de décomposition de domaine pour des modèles de solvation continue*, Séminaire de Mathématiques Appliquées, Collège de France (France), 21/11/14
- o *Mathematics meets chemistry: a new paradigm for implicit solvation models*, CERMICS seminar, École des ponts ParisTech (France), 19/09/14
- o *Mathematics meets chemistry: a new paradigm for implicit solvation models*, CBC talk, Simula Oslo (Norway), 06/06/14
- o *Mathematics meets chemistry: a new paradigm for implicit solvation models*, MOX seminar, Politecnico Milano (Italy), 19/05/14
- o *Domain decomposition algorithms for implicit solvation models. Can you be 500 times faster than the fast multipole method?*, University of California, Berkeley, Applied Mathematics Seminar, 11/12/13
- o *Reduced Basis Method and its application to electromagnetic scattering problems*, University of Rennes (France), 27/06/2013
- o *Reduced Basis Method, greedy sampling and its application to electromagnetic scattering problems*, Institut für Numerische Simulation, University of Bonn (Germany), 06/05/2013

- *Domain decomposition method for implicit solution models*, Mathematical Colloquium, University of Bern (Switzerland), 08/04/2013
- *Locally adaptive greedy approximations for anisotropic parameter reduced basis spaces*, LJLL seminar, Pierre-and-Marie Curie University (Paris 6), (France), 07/12/2012
- *The reduced basis method – an introduction*, CalSim seminar, Pierre-and-Marie Curie University (Paris 6), (France), 26/09/2012
- *Reduced Basis Method, Greedy Sampling and its application to Electromagnetic Scattering Problems*, University of Stuttgart (Germany), 26/07/2012
- *Certified Reduced Basis Methods for Integral Equations with Applications to Electromagnetics*, Lawrence Livermore National Laboratory, Livermore (USA), 23/03/2012
- *A Reduced Basis Method for Multiple Electromagnetic Scattering in three Dimensions*, Colloquium talk at Rice University, Houston (USA), 19/09/2011
- *Reduced Order Computations of Complex Scattering Problems*, Job application talk for a W3 position, University of Ulm (Germany), 22/07/2011
- *Reduced Order Computations of Complex Scattering Problems*, Mathicse Seminar, EPFL, Lausanne (Switzerland), 16/06/2011
- *Reduced Order Computations of Complex Scattering Problems*, CERFACS, Toulouse, (France), 31/15/2011
- *Reduced Order Computations of Complex Scattering Problems*, Scientific Computing Group Seminar, Brown University, Providence (USA), 25/03/2011
- *Reduced Order Computations of Complex Scattering Problems*, Applied Mathematics Seminar, University of California, Berkeley (USA), 02/02/2011
- *Reduced Order Modeling for Electromagnetic Scattering Problems*, Scientific Computing and Matrix Computations Seminar, University of California, Berkeley (USA), 15/09/2010
- *Reduced Basis Method for the parametrized Electrical Field Integral Equation*, Numerical Analysis Seminar, University of Maryland, College Park (USA), 20/04/2010
- *Reduced Basis Method for the parametrized Electrical Field Integral Equation*, Applied Math Seminar, University of Delaware, Newark De (USA), 13/04/2010
- *Reduced Basis Method for the parametrized Electrical Field Integral Equation*, Computational Mathematics Seminar, University of New South Wales, Sydney (Australia), 12/01/2010
- *Reduced Basis Method for the parametrized Electrical Field Integral Equation*, Department of Mathematics, Texas A&M University, College Station (USA), 11/11/2009
- *Reduced Basis Method for the parametrized Electrical Field Integral Equation*, Symposium in Computational Mathematics, University of Basel, Basel (Switzerland), 23/10/2009
- *Stabilization Strategies for Discontinuous Galerkin Methods*, Department of Mathematics, University of Maryland, College Park (USA), 17/02/2009
- *Bubble stabilized discontinuous Galerkin method for elliptic, parabolic and Stokes's problem*, Department of Mathematics and Statistics, McGill University, Montreal (Canada), 25/03/2008

TALKS:

- *Improvement of cheap approximations by a post-processing/reduced basis rectification method*, Enumath conference 2015, Ankara (Turkey), 17/09/2015
- *Guaranteed and robust a posteriori bounds for Laplace eigenvalues and eigenvectors*, Enumath conference 2015, Ankara (Turkey), 14/09/2015
- *A perturbation-method-based post-processing of planewave approximations for non-linear Schrödinger equations*, 26th Biennial Numerical Analysis Conference, University of Strathclyde (UK), 23/06/2015
- *Improvement of cheap approximations by a post-processing/reduced basis rectification method*, World Congress on Computational Mechanics, Barcelona (Spain), 22/07/2014
- *A Fast Numerical High Order Method for Electrostatic Problems*, ICOSAHOM 2014, University of Salt Lake City (USA), 24/06/2014

- *A Reduced Basis Method for Multiple Electromagnetic Scattering in Three Dimensions*, Workshop on NUMERICAL METHODS FOR HIGH-DIMENSIONAL PROBLEMS, Ecole des Ponts Paritech (France), 16/04/2014
- *Locally adaptive greedy approximations for anisotropic parameter reduced basis spaces*, Workshop on reduced basis methods and data, LJLL, Paris 6 (France), 08/01/2014
- *Locally adaptive greedy approximations for anisotropic parameter reduced basis spaces*, Workshop on Adaptive and Local Model Order Reduction with Machine Learning for Parametrized Systems, TU Munich (Germany), 19/09/2013
- *Domain decomposition for implicit solvation models*, Enumath 2013, EPFL (Switzerland), 26/08/2013–30/08/2013
- *Efficient greedy algorithms for high-dimensional parameter spaces*, SMAI 2013, Seignosse (France), 30/05/2013
- *Certified reduced basis method for the electric field integral equation*, Electromagnetics - Modelling, Simulation, Control and Industrial Applications, Weierstrass Institute, Berlin (Germany), 17/05/2013
- *Domain decomposition method for implicit solvation models*, Swiss Numerics Colloquium, EPF Lausanne (Switzerland), 05/04/2013
- *Locally adaptive greedy approximations for anisotropic parameter reduced basis spaces*, GAMM Meeting 2013, Novi Sad (Serbia), 18/03/2013
- *Locally adaptive greedy approximations for anisotropic parameter reduced basis spaces*, WON-APDE, Concepción (Chile), 17/01/2013
- *A reduced basis method for electromagnetic scattering by multiple particles in three dimensions*, WONAPDE, Concepción (Chile), 17/01/2013
- *Certified reduce basis method for the electric field integral equation*, IABEM 2013, Santiago (Chile), 09/01/2013
- *A reduced basis method for electromagnetic scattering by multiple particles in three dimensions*, MoRePas II workshop, Wissenschaftszentrum Schloss Reisingen Ulm (Germany), 02/10/2012–05/10/2012
- *New ideas for RB/EIM greedy sampling for high dimensional problems*, at the “Reduced basis in high dimension” workshop, University Paris VI, Paris (France), 23/06/2011–24/06/2011
- *A posteriori estimates for the bubble stabilized discontinuous Galerkin method*, at Mafelap 2009 at Brunel University (England), 09/06/2009–12/06/2009
- *Bubble stabilized discontinuous Galerkin method*, at Finite Element Circus 2009 at University of Delaware (USA), 24/05/2009–25/05/2009
- *Bubble stabilized discontinuous Galerkin method*, at WCCM8/ECCOMAS 2008 in Venice (Italy), 30/06/2008–04/07/2008
- *hp-Optimal DG-method for linear elliptic problems*, at European Finite Element Fair in Gothenburg (Sweden), 30/05/2008–31/05/2008
- *Is stabilization necessary for symmetric discontinuous Galerkin methods for second order elliptic problems?*, at ENUMATH07 in Graz (Austria), 10/09/2007–14/09/2007
- *Minimal stabilization of discontinuous Galerkin finite element method for hyperbolic problems*, at ICIAM at ETH Zürich (Switzerland), 16/06/2007–20/07/2007
- *Minimal stabilization of discontinuous Galerkin finite element method for hyperbolic problems*, at ICOSAHOM07 in Beijing (China), 18/06/2007–22/06/2007
- *Low order discontinuous Galerkin methods for second order elliptic problems*, at Swiss Numerical Colloquium, University of Geneva (Switzerland), 04/04/2007
- *Multiscale aspects on the stabilization of the DG-method*, at Mini-Workshop on Variational Multiscale Methods and Stabilized Finite Elements, EPFL (Switzerland), 12/02/2007–13/02/2007
- *Discontinuous and continuous finite element methods with interior penalty for hyperbolic problems*, at Swiss Numerical Colloquium, EPFL (Switzerland), 12/04/2006
- *Discontinuous finite element methods with interior penalty for diffusion-reaction equation*, at Workshop on Discontinuous Galerkin Methods, Bergamo (Italy), 24/02/2006