N E W S L E T T E R

Zurich Graduate School in Mathematics

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Issue No 1 - Winter semester 06/07

Welcome to the new members of our graduate school

PhD students

Daniel Alai (ETH)
Michael Amrein (ETH)
Xiaobo Bao (Scholarship)
Costante Bellettini (Scholarship)
Oliver Fabert (ETH)
Cyrine Fitouri (UZH)
Michele Gianella (ETH)
Christian Graf (ETH)
Michael Guarisco (ETH)
Tobias Hartnick (Scholarship)
Holger Heumann (ETH)
Peter Kauf (ETH)
Martina Kihn (UZH)
Simon Kurmann (UZH)
Dominik Lambrigger (ETH)
Alberto Lopez (UZH)
Natalia Lysenko (Scholarship)
Aleksander Momot (ETH)
Thomas Preu (UZH)
Michael Reiterer (ETH)
Davide Schipani (UZH)
Emanuele Spadaro (Scholarship)
Pia Ullmann (UZH)
Lukas Wampfler (ETH)
Karen Yeressian Negarchi (Scholarship)

Postdocs

An Jinpeng (ETH)
Robert Artebrand (ETH)
Bernard Yann (ETH)
Baptiste Calmès (ETH)
Alexey Chernov (ETH)
Delia Maina Coculescu (ETH)
Ulrich Derenthal (UZH)
Clemens Fuchs (ETH)
Ekaterina Gots (UZH)
Hichem Hajaiej (UZH)
Illya Karabash (UZH)
Philipp Lohrmann (UZH)
Boris Tschirschwitz (UZH)

Faculty

Alessandra Iozzi (ETH)
Andrew Kresch (UZH)
Johanna Neslehova (ETH)
Wolfgang Reichel (UZH)
Sergei Shadrin (UZH)
Manuel Torrilhon (ETH)

Course Program

Enclosed please find the course program of the upcoming semester. We would like to remind you of our common activities (alternating on Tuesdays):

- Zurich Colloquium in Mathematics
- Zurich Graduate Colloquium

Language Courses

The new courses (levels A1, A2 and B2) will start in October. Detailed information is given on the back page.

International Relations

The International Graduate School in "Stochastics" will start this fall. Please contact Prof. E. Bolthausen for further information (eb@math.unizh.ch).

The summer school of the International Graduate School "Arithmetic and Geometry" took place in September 24-29, 2006 in Pleinfeld, Germany.

Social activities WS 06/07

Käsefondue

The Graduate School will organize a Käsefondue evening on Wednesday, December 6, starting at 6:30 pm. As last year it will take place at the Dozentenfoyer of the Irchel campus. All members of the graduate school are invited.

Stammtisch

After the Zurich Graduate Colloquium the PhD students and postdocs meet in one of Zurich's bars. These meetings are a chance to get to know each other better. The new PhD students and postdocs are particularly welcome. The dates of these meetings will be anounced on the homepage of the graduate school.

Language Courses Program

The Zurich Graduate School in Mathematics offers language courses in German for its members, in particular for the PhD-students and postdocs. The aim of these courses is to enable all members of the graduate school to converse and teach in German.

The basic program consists of four courses that will be offered yearly. Course level A1 and A2 will be offered in the fall semester and course level B1 and B2 in the spring. Level A1 and B1 are intensive courses, of 4 weeks each, starting two weeks ahead of the semester. Depending on demand, the more advanced courses, level C1 and C2, will be offered in fall and spring semester respectively. Each course level consists of 30 lessons.

The courses are subsidized by the graduate school.

Core program

Level A1

Requirement: no knowledge of German required.

Goal: to be able to have simple conversations in German; focus on comprehension and speaking skills.

Topics: basic vocabulary and short dialogues, using the structure of simple sentences with direct object; conjugation of important verbs in the present tense.

Level A2

Requirement: course level A1 or equivalent (recommendation of teacher).

Goal: further progress in comprehension and speaking skills.

Topics: basic use of prepositions, modal verbs and the indirect object; introduction to perfect tense.

Level B1

Requirement: course levels A1 and A2 or basic knowledge of German (recommendation of teacher).

Goal: enable participants to have more elaborate conversations in German; basic reading and writing skills.

Topics: complex sentences, study of future and perfect tense, “Wechselpräpositionen”.

Level B2

Requirement: courses level A1 – B1 or basic knowledge of German (recommendation of teacher).

Goal: improve speaking skills, introduction to how to teach in German.

Topics: different declensions of German adjectives, use of verbs in the indicative/active form, most important irregular verbs (“Stammformen”).

Advanced Courses

Level C1 and C2

Requirement: course levels A1 - B2 or quite advanced knowledge of German (recommendation of teacher).

Goal: teaching in German; basic vocabulary in the sciences, reading and writing skills.

Topics: more elaborate syntax structures, main clausewww.math.ethz.ch and subordinate clause, passive and subjunctive.

Costs (course material included)

PhD-students and postdocs	250.- CHF
Scholarshipholders	0.- CHF
Others	650.- CHF

Courses in winter semester 06/07

Level A1

Course of 4 weeks, 10 sessions of 3 hours each.
Start: Oct 9
Oct 9 - Oct 20.: (9 lessons per week)
Mon 9 – 12 am
Wed 3 – 6 pm
Fri 9 – 12 am
Oct 23 - Nov 3.: (6 lessons per week)
Mon 9 – 12 am
Fri 9 – 12 am

Level A2

Course of 8 weeks, two sessions a week of 2 hours each.
Start: Nov 13
Nov 13 - Dec 11 and Jan 8 - Jan 26
Mon 10-12am
Fri 2-4pm or 3-5pm

Level B2

Course of 10 weeks one session a week of 3 hours each.
Start: Oct. 25
Oct 25 - Dec 6 and Jan 10 – Jan 24
Wed 3-6pm

Further Information

If you are interested in one of the courses please let us know as soon as possible. For more information please contact Claudia Müller, claudia.mueller@math.ethz.ch or claudia.mueller@math.unizh.ch Tel. 044-632-3405 or 044-635-5885.

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Contact: info@zgsm.ch

Zurich Graduate School in Mathematics

Course program winter semester 06/07. For detailed information see www.zurich-graduate-school-math.ch

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8	Angewandte statistische Regression Marianne Müller 08.15-10.00 -- ETH CHN E 42 Ausgewählte Kapitel aus der kommutativen Algebra Markus Brodmann 08.00-9.45 -- UZH Y36-M-94; Übungen n.V.	Ausgewählte Kapitel aus der kommutativen Algebra Markus Brodmann 08.00-9.45 -- UZH Y36-M-94		Algorithmic Game Theory (V) Peter Widmayer 08.15-10.00 -- ETH CAB H 56	
9		Fourier-analytic Methods in Discrete Mathematics (U) Tibor Szabo 09.15 -12.00 -- ETH CAB G 57		Quantenfeldtheorie I (V) Ayres Freitas 9.00-9.45 -- UZH Y16-G-05	
10	Empirical process theory and applications Sara van de Geer 10.15-12.00 -- ETH HG D 7.2 Introduction to Bounded Continuous Cohomology Alessandra Iozzi 10.15-12.00 -- ETH HG G 43 Introduction to Financial Economics Thorsten Hens 10:15-12:00 -- UZH KOL-G-209 Products and non-linearities in partial differential equations Tristan Rivière 10.15-12.00 -- ETH HG D 1.1 Statistik III Andrew Barbour 10.15-12.00 -- UZH Y36-M-24; Übungen n.V.	Fourier-analytic Methods in Discrete Mathematics (V) Tibor Szabo 10.15 -12.00 -- ETH CAB G 59 Geometrische Masstheorie Urs Lang 10.15-12.00 -- ETH HG D 3.2 Introduction to mathematical finance and derivatives (V) Erich Walter Farkas 10.15-12.00 -- UZH SOD-1-104 Mathematische Modelle in den Naturwissenschaften René Sperb 10.15-12.00 -- ETH HG E 41 Optimization Techniques (V) Hans-Jakob Lüthi 10.15 -12.00 -- ETH HG 7.2 Potentialtheorie Wolfgang Reichel 10.15-12.00 -- UZH Y36M88 Representation of surface groups and Teichmüller theory (*) Francois Labourie 10:00-12:00 -- ETH HG G 43	Computer-Supported Modeling and Reasoning (V) Burkhart Wolff 10.15-12.00 -- ETH IFW B 42 Elliptische Kurven Elisa Gorla 10.15-12.00 -- UZH Y36-M-94; Übungen n.V. Exterior differential systems in geometry (*) Robert Bryant 10:00-12:00 -- ETH HG G 43 Statistik III Andrew Barbour 10.15-12.00 -- UZH Y36-M-24 System Modeling and Optimization (V) Hans-Jakob Lüthi 10.15-12.00 -- ETH HG D 1.1	Dissipative evolution in metric spaces Ulisse Stefanelli 10:15-12:00 -- UZH Y36-M-88 Elliptische Kurven Elisa Gorla 10.15-12.00 -- UZH Y36-M-94 Moment maps, equivariant cohomology, and their applications (*) Anton Alekseev 10:00-12:00 -- ETH HG G 43 Zeitreihenanalyse Peter Bühlmann 10.15-12.00 -- ETH HG D 1.2	Algebraic Stacks Andrew Kresch (Begin: Nov 3) 10.15-13.00 -- UZH Y36-M-88; Übungen n.V. Discontinuous Galerkin Methods Ralf Hiptmair, Ilaria Perugia 10.15-12.00 -- ETH HG G 26.3 Erfüllbarkeit logischer Formeln - Kombinatorik u. Algorithmen (V) Emo Welzl 10.15-12.00 -- ETH CAB G 52 Nichtlineare partielle Differentialgleichungen Michel Chipot 10.15-12.00 -- UZH Y36-M-94
12		Introduction to mathematical finance and derivatives (U) Erich Walter Farkas 12.15-13.00 -- UZH SOD-1-104			
13	Angewandte Varianzanalyse und Versuchsplanung Hans Rudolf Roth 13.15-15.00 -- ETH CHN F 46 Lie Algebra Cohomology and Index Theory Giovanni Felder 13.15-15.00 -- ETH HG E 22 Optimization Techniques (U) Hans-Jakob Lüthi 13.15-15.00 (2w) -- ETH HG E 3		Kryptographie (V) Ueli Maurer 13.15-15.00 -- ETH IFW A 36 Stochastic Optimal Control with Applications in Finance Philipp Schönbucher 13.15-15.00 -- ETH HG D 7.2	Nichtlineare partielle Differentialgleichungen Michel Chipot 13.00-14.45 -- UZH Y36-M-94; Übungen n.V. Representation of surface groups and Teichmüller theory (*) Francois Labourie 13:00-15:00 -- ETH HG G 43 Risikotheorie Paul Embrechts 13.15-15.00 -- ETH HG E 1.1 Wavelet FEM for Operator Equations Christoph Schwab 13.15-14.00 -- ETH HG G26.5	Algorithmic Game Theory (U) Peter Widmayer 13.15-10.00 -- ETH CAB G 57 Erfüllbarkeit logischer Formeln - Kombinatorik u. Algorithmen (U) Emo Welzl 13.15-15.00 -- ETH CAB G 52 System Modeling and Optimization (U) Hans-Jakob Lüthi 13.15-15.00 -- ETH ML H 43; ML J 37.1
14	Quantenfeldtheorie I (V) Ayres Freitas 14.00-15.45 -- UZH Y16-G-05	Gitter und Kryptologie Daniel Mall 14.15-16.00 -- ETH ML J 34.3	Wavelet FEM for Operator Equations Christoph Schwab 14.15-16.00 -- ETH HG E 1.1		
15	Computer-Supported Modeling and Reasoning (U) Burkhart Wolff 15.15-17.00 -- ETH IFW C 42 Discontinuous Galerkin Methods Ralf Hiptmair, Ilaria Perugia 15.15-17.00 -- ETH HG F 26.3	Topics in Mathematics of Computer Science (V) Maurice Cochand 15.15-17.00 -- ETH HG E 33.1 Zeitreihenanalyse Peter Bühlmann 15.15-16.00 -- ETH HG D 1.2	Kryptographie (U) Ueli Maurer 15.15-17.00 -- ETH IFW C 42; RZ F 21 Potentialtheorie Wolfgang Reichel 15.00-17.00 -- UZH Y36M88	Quantitative Risk Management I Johanna Neslehova 15.15-17.00 -- ETH HG D 1.2 Topics in Mathematics of Computer Science (U) Maurice Cochand 15.15-17.00 (2w) -- ETH HG D 53	Coherent Risk Measures Fredy Delbaen 15.15-17.00 -- ETH HG G 26.1 Kryptographie (U) Ueli Maurer 15.15-16.00 -- ETH IFW C 42
16	Optimization and Applications Hans-Jakob Lüthi 16.15-18.00 -- ETH HG E 41 Stochastic Loss Reserving Methods Mario Wüthrich 16.15-18.00 -- ETH HG D 7.1	AK Lebensversicherungsmathematik Michael Koller 16.15-18.00 -- ETH HG D 7.1			Kryptographie (U) Ueli Maurer 16.15-18.00 -- ETH IFW C 42
17		Zurich Colloquium in Mathematics Giovanni Felder, Thomas Kappeler, Gisbert Wüstholz 17:15-18:15 -- ETH HG G 3 alternating Zurich Graduate Colloquium Markus Bader, Alessandra Iozzi, Noemi Kurt, Andreas Ott 17:15-18:15 -- ETH HG G 43			
	Additional courses: Riemann-Sufarces - Sergei Shadrin - Day and time: to be fixed later, organisational meeting: Nov. 6, 10:15-13:00, UZH Y36-M-88				

(*) Nachdiplomvorlesungen (V) Vorlesung (U) Übung