



**Monday  
2.5.2011**

**EPF LAUSANNE**

Seminar of Probability and Stochastic Process

MICHEL BENAÏM (Université de Neuchâtel)  
*Stochastic Approximations and Game Theory*  
11.15 h. Bâtiment de Mathématiques, Ecublens, Salle ME A0 407

**UNIVERSITÄT ZÜRICH**

Oberseminar: Algebraische Geometrie

EMILIE DUFRESNE (University of Basel)  
*Finite separating sets and quasi-affine quotients*  
13.15-14.45 h. Institut für Mathematik, Winterthurerstr. 190, Zürich-Irchel, Hörsaal Y27H25

**ETH ZÜRICH**

Symplectic Geometry Seminar

CEDRIC MEMBREZ (ETH Zürich)  
*Lagrangian topology and algebraic deformation theory*  
15:15 h. ETH Zürich, Rämistrasse 101, Zürich, room HWZ (HG G43)

**EPF LAUSANNE**

Seminar of Probability and Stochastic Process

ALBERT N. SHIRYAEV (Steklov Mathematics Institute, Moscow)  
*Duality Principles for Option Pricing and Hedging*  
16.15 h. Bâtiment de Mathématiques, Ecublens, Salle CM 011

**Tuesday  
3.5.2011**

**UNIVERSITÉ DE NEUCHÂTEL**

Algebra Seminar

ELISA GORLA (Universität Basel)  
*Elliptic curve cryptography and its applications to secrecy in communications*  
11.00 h. Institut de mathématiques, rue Emile Argand 11, Neuchâtel, Salle B217 (bâtiment B, 2ème étage)

**EPF LAUSANNE**

Group Theory Seminar

DONNA TESTERMANN (EPFL)  
*Cross-characteristic representations of finite groups of Lie type*  
13.15 h. Bâtiment de Mathématiques, Ecublens, Salle MA 30

**EPF LAUSANNE**

Séminaire de topologie

PAOLO MASULLI (University of Copenhagen)  
 *$RO(G)$ -graded equivariant cohomology*  
14.15 h. EPFL, Ecublens, Salle CM010

**ETH / UNI ZÜRICH**

Analysis Seminar

MARJOLAINE PUEL (Université de Toulouse)  
*Diffusion approximation and homogenization for the linear Boltzmann equation*  
15.15 h. ETHZ, Rämistrasse 101, Zürich, room HWZ (HG G43)

**UNIVERSITÉ DE GENÈVE**

Séminaire d'analyse numérique

IRENE LIVSHITS (Ball State University)  
*A bootstrap algebraic multigrid method for solving one-dimensional Helmholtz equations*  
15.15 h. Section de mathématiques, 2-4, rue du Lièvre, Genève-Acacias, salle 623

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Tuesday  
3.5.2011

**UNIVERSITÉ DE FRIBOURG**

JOACHIM KRIEGER (EPFL)

*Global regularity and singularity formation for critical geometric wave equations*

17.15 h. Bâtiment de physique, chemin du musée 3, Fribourg, auditoire 2.52

<http://www.unifr.ch/math/colloquia.php>

**ETH / UNI ZÜRICH**

Zurich Graduate Colloquium

NICOLETTA GABRIELLI (ETH Zürich)

*What is... an Affine Process?*

17.15 h. Main Building of the University Zürich, Karl-Schmid-Str. 4, Zürich, room KO2F150

Wednesday  
4.5.2011

**UNIVERSITÉ DE FRIBOURG**

Oberseminar Geometrie

ANNE PARREAU (Université de Grenoble)

*tba*

10.20 h. Seminarraum Mathematik II (Lonza Gebäude), Fribourg

<http://commonweb.unifr.ch/math/seminars/Osgeom-top.html>

**UNIVERSITÄT BERN**

Swiss Probability Seminar

14.40-15.20 h. ALBERT SHIRYAEV (Steklov Mathematical Institute, Moscow)

*Overview of Kolmogorov's complexity and related fields*

15.25-16.05 h. FRANCESCO RUSSO (Ecole Nationale Supérieure des Techniques Avancées)

*Stochastic integration via regularization in Banach spaces and applications*

16.35-17.15 h. JURI KONDRATIEV (University of Bielefeld)

*Markov dynamics for continuous point systems and kinetic equations*

17.20-18.00 h. JORDAN STOYANOV (University of Newcastle)

*Moment (In)Determinacy of Probability Distributions*

Main Building, University of Bern, Hochschulstrasse 4, Kuppelraum

From 14.10, Refreshments in Room 228 (Sidlerstrasse 5, ExWi)

**ETH ZÜRICH**

Algebra-Topology Seminar

REMI COULON (MPI Bonn)

*Examples of aspherical hyperbolic simplicial complexes. An application of small cancellation for rotation families of groups*

14.00 h. ETHZ, Rämistrasse 101, Zürich, room HG G 19.1

**ETH / UNI ZÜRICH**

Talks in Mathematical Physics

HAGEN TRIENDL (CEA)

*$N=1$  Vacua in  $N=2$  Supergravity and String Theory*

14.00 h. ETH Zürich, Hönggerberg, room ETH HIT E 41.1

**ETH / UNI ZÜRICH**

Geometry Seminar

ANDREI AGRACHEV (SISSA, Italy)

*The Curvature Revisited*

15.45 h. ETH Zürich, Rämistrasse 101, Zürich, room HWZ (HG G43)

**ETH ZÜRICH**

Colloquium in Numerical and Applied Mathematics

ANNALISA BUFFA (University of Pavia)

*Advances in Isogeometric analysis: the blessing of regularity*

16.15 h. ETH Zürich, Rämistrasse 101, Zürich, room HG E 1.2

<http://www.sam.math.ethz.ch/news/kolloquia>

**UNIVERSITÄT ZÜRICH**

Video Seminar in Analysis

KARI ASTALA (University of Helsinki)

*tba*

18.10-19.10 h. Institut für Mathematik, Winterthurerstrasse 190, Zürich-Irchel, Hörsaal Y27H36

**Thursday**  
**5.5.2011**

**EPF LAUSANNE**

TANJA EISNER (University of Amsterdam)  
*tba*

13.00 h. Bâtiment de Mathématiques, Ecublens, Salle MA 30

Séminaire de Géométrie et Théorie Ergodique

**UNIVERSITÄT BASEL**

WOLFGANG SCHMIDT (University of Colorado)  
*Diophantische Approximation und Parametrische Geometrie der Zahlen*

14.15 h. Mathematisches Institut, Rheinsprung 21, Basel, grosser Hörsaal

Seminar Zahlentheorie

**ETH / UNI ZÜRICH**

TERRY LYONS (University of Oxford))

*The expected signature of a stochastic process. Some new PDE's*

14.45 h. ETH Zürich, Rämistrasse 101, Zürich, room HG G 19.1

Talks in Financial and Insurance Mathematics

**EPF LAUSANNE**

BJÖRN MÜTZEL (EPFL)

*Capacities, Systoles and Jacobians of Riemann Surfaces*

17.00 h. Bâtiment de Mathématiques, Ecublens, Salle MA A1 11

Soutenance de Thèse

**ETH / UNI ZÜRICH**

FABRIZIO DURANTE (Free University of Bozen-Bolzano)

*Complete dependence, shuffles and approximation of copulas*

17.15 h. ETH Zürich, Rämistrasse 101, Zürich, room HWZ (HG G 43)

Talks in Financial and Insurance Mathematics

**ETH / UNI ZÜRICH**

JOHAN TYKESSON (Weizmann Institute, Rehovot)

*Random interacements and amenability*

17.15 h. ETH Zürich, Rämistrasse 101, Zürich, room HG G 19.2

Seminar on Stochastic Processes

**UNIVERSITÄT ZÜRICH**

SERGEY ZELIK (University of Surrey)

*Infinite-energy solutions for the Navier-Stokes equations in a cylinder*

17.15-18.45 h. Institut für Mathematik, Winterthurerstrasse 190, Zürich-Irchel, Hörsaal Y27H25

Arbeitsgemeinschaft Analysis

**Friday**  
**6.5.2011**

**UNIVERSITÄT BASEL**

ANDREAS MAURISCHAT (Universität Heidelberg)

*Galois groups for inseparable field extensions*

10.30 h. Mathematisches Institut, Rheinsprung 21, Basel, kleiner Hörsaal

Seminar Algebra & Geometrie

**ETH / UNI ZÜRICH**

MARGHERITA DISERTORI (Université de Rouen)

*Anderson localization/delocalization transition for a supersymmetric sigma model*

10.45 h. ETH Zürich, Höggerberg, room ETH HIT F31.2

Talks in Mathematical Physics

**UNIVERSITÉ DE GENÈVE**

ALEXANDRE TSYBAKOV (CREST and Université de Paris VI)

*Optimal methods of noisy matrix completion research seminars in statistics*

11h15 h. Section de mathématiques, 2-4, rue du Lièvre, Genève-Acacias, salle 5220

Research seminars in statistics

**EPF LAUSANNE**

THOMAS HOFER (EPFL)

*Numerical Simulation and Optimization of the Alumina Distribution in an Aluminium Electrolysis Pot*

17.00 h. Bâtiment de Mathématiques, Ecublens, Salle MA A1 11

Soutenance de Thèse

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USI - Università della Svizzera italiana, Lugano

**Swiss Numerics Colloquium -  
Schweizer Numerik Kolloquium - Colloque Numrique Suisse**

**Friday, May 6, 2011, 08.30 - 17.00 h**

USI - Università della Svizzera italiana, Lugano

*Information:*

<http://www.ics.inf.usi.ch/events/current-events/swiss-numerics-colloquium-2011.html>

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**EPF LAUSANNE**

## **Number Theory Days**

**Friday - Saturday, May 6 - 7, 2011**

### **Friday, May 6**

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|---------------|---|
| 14.15-15.15 h | ANNETTE HUBER-KLAWITTER (Freiburg i.Br.)<br><i>Period numbers and Nori's motives</i>                  |
| 15.45-16.45 h | PIERRE PARENT (Université de Bordeaux)<br><i>Rational points on <math>X_0^+(p^r)</math></i>           |
| 17.45-18.45 h | ALEXANDER GORODNIK (Bristol University)<br><i>Randomness on nilmanifolds and Diophantine analysis</i> |

### **Saturday, May 7**

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|---------------|--|
| 09.00-09.30 h | Coffee   |
| 09.30-10.30 h | LAURENT FARGUES (Université de Paris, Orsay)<br><i>Curves and vector bundles in <math>p</math>-adic Hodge theory</i> |
| 11.30-12.30 h | PAULA TRETAKOFF (Texas A&M University)<br><i>Variations of Hodge Structure and the Analytic Subgroup Theorem</i>     |

*Organizers:*

Philippe Michel @ EPFL : [philippe.michel@epfl.ch](mailto:philippe.michel@epfl.ch)

Gisbert Wuestholz @ ETHZ : [gisbert.wuestholz@math.ethz.ch](mailto:gisbert.wuestholz@math.ethz.ch)

*Information:* <http://wiki.epfl.ch/ntd>

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