

**Monday, October 21****Université de Neuchâtel****Ghid Maatouk (EPF Lausanne)**

Generalized product constructions

11:00 • Université de Neuchâtel, Institut de mathématiques, Rue Emile-Argand 11, Room B217

*Seminar on Coding Theory and Cryptography***Université de Neuchâtel****Marco Calderini (Università degli Studi di Trento)**

Index Codes from t-designs

13:00 • Université de Neuchâtel, Institut de mathématiques, Rue Emile-Argand 11, Room B217

*Seminar on Coding Theory and Cryptography***Universität Zürich****Prof. Dr. Laurent Fargues (Jussieu)**

The fundamental curve of p-adic Hodge theory

13:15 • UZH Irchel, Winterthurerstrasse 190, Zürich, Building Y27, Room H 25

*Advanced Seminar in Algebraic Geometry***ETH Zürich****Francois Charette (ETH Zürich)**

Loop spaces in symplectic topology III

15:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43

*Symplectic Geometry Seminar***EPF Lausanne****Kevin McGerty (University of Oxford)**

Title T.B.A.

15:15 • EPF Lausanne, Salle MA A110

*Geometry Seminar EPFL***Université de Genève****Jean Bertoin (Universität Zürich)**

The cut-tree of large recursive trees

16:15 • Université de Genève, Section Mathématiques, 2-4, rue du Lièvre, Salle 17

*Séminaire de Mathématique Physique***ETH Zürich****Prof. Dr. Bernd Sturmfels (UC Berkeley and MPI Bonn)**

The Euclidean Distance Degree

16:30 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 19.1

*Optimization and Applications Seminar***Universität Bern****Dr. Th. Vetterlein (Universität Linz)**

Totally ordered monoids

17:15 • Universität Bern, Sidlerstrasse 5, 3012 Bern, ExWi B 78

*Mathematisches Kolloquium***Universität Zürich****Dr. Mahir Hadzic (King's College London)**

Stability of the FLRW Solutions to the Dust-Einstein System with a Positive Cosmological Constant

17:15 • UZH Irchel, Winterthurerstrasse 190, Zürich, Building Y27, Room H 12

*Seminar in Partial Differential Equations***Tuesday, October 22****ETH Zürich****Prof. Dr. Thomas Mikosch (University of Copenhagen, Denmark)**

Time series models with heavy tails

10:00 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43

*Nachdiplomvorlesung*

<p><b>ETH Zürich</b>  <b>Po-Ling Loh (Seminar für Statistik, ETH Zürich)</b>  Local optima of nonconvex regularized M-estimators  12:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 19.1</p>	<i>Statistics Research Seminar</i>
<p><b>ETH Zürich</b>  <b>Prof. Dr. Bernd Sturmfels (UC Berkeley and MPI Bonn)</b>  Tropicalization of Classical Moduli Spaces  13:30 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 19.2</p>	<i>Algebraic Geometry and Moduli Seminar</i>
<p><b>Université de Genève</b>  <b>Martin Markl (University of Prague)</b>  Algebraic structures of string field theory  14:00 • Université de Genève, Villa Battelle, 7 route de Drize, 1227 Carouge</p>	<i>Lie groups and moduli spaces</i>
<p><b>ETH Zürich</b>  <b>Dr. Noah Giansiracusa (UC Berkeley)</b>  A non-reductive GIT approach to the effective cone of <math>\mathcal{M}_{0,n}</math>  15:00 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 19.2</p>	<i>Algebraic Geometry and Moduli Seminar</i>
<p><b>Université de Genève</b>  <b>Ezra Getzler (Northwestern University, Illinois, USA)</b>  Higher Lie groupoids II  15:30 • Université de Genève, Villa Battelle, 7 route de Drize, 1227 Carouge</p>	<i>Lie groups and moduli spaces</i>
<p><b>Université de Fribourg</b>  <b>Prof. Dr. Alex Lubotzky (Hebrew University of Jerusalem)</b>  Arithmetic groups, Ramanujan graphs and error correcting codes  18:15 • Université de Fribourg, Hörsaal 0.110, Biologiegebäude, 1700 Fribourg</p>	<i>Michel Plancherel Lectures</i>
<b>Wednesday, October 23</b>	
<p><b>ETH Zürich</b>  <b>Prof. Dr. Mihalis Dafermos (University of Cambridge, UK)</b>  The geometry and analysis of black holes in general relativity  10:00 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43</p>	<i>Nachdiplomvorlesung</i>
<p><b>EPF Lausanne</b>  <b>Prof. Dr. Bernd Sturmfels (UC Berkeley and MPI Bonn)</b>  Non-Negative Polynomials versus Sums of Squares  15:15 • EPF Lausanne, Salle MA A110</p>	<i>Geometry Seminar EPFL</i>
<p><b>ETH Zürich</b>  <b>Alex Lubotzky (Einstein institute of Mathematics, Israel)</b>  Title T.B.A.  15:45 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43</p>	<i>Geometry Seminar</i>
<p><b>Université de Neuchâtel</b>  <b>Katja Eremenko</b>  Projection du film "Colors of Math"  16:15 • Université de Neuchâtel, Rue Emile - Argand 11, Auditoire Louis-Guillaume, ALG, F200</p>	<i>Séminaire Mathématiques et Société</i>
<p><b>EPF Lausanne</b>  <b>Prof. Dr. Bernd Sturmfels (UC Berkeley and MPI Bonn)</b>  Maximum Likelihood for Matrices with Rank Constraints  17:15 • EPF Lausanne, Salle CM5</p>	<i>Statistics Seminar</i>

**ETH Zürich**

*Seminar on Stochastic Processes*

**Wei-Kuo Chen (University of Chicago)**

On Gaussian inequalities for product of functions

17:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43

**Thursday, October 24**

**Université de Genève**

*Séminaire de Topologie et Géométrie*

**Dror Bar-Natan (University of Toronto)**

Finite Type Invariants of Ribbon Knotted Balloons and Hoops

14:15 • Université de Genève, Section Mathématiques, 2-4, rue du Lièvre, Salle 17

**Universität Basel**

*Seminar Zahlentheorie*

**Dr. Vincenzo Mantova (Scuola Normale Superiore di Pisa)**

On a generalization of two conjectures of Rényi, Erdős and Schinzel about lacunary polynomials.

14:15 • Universität Basel, Mathematisches Institut, Rheinsprung 21, CH-4051 Basel, Grosser Hörsaal

**ETH Zürich**

*Talks in Mathematical Physics*

**Dr. Giorgia Fortuna (ETH Zürich, Switzerland)**

Opers on  $X \times X$  and spherical modules over affine Lie algebras at the critical level

15:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43

**ETH Zürich**

*ZüKoSt Zürcher Kolloquium über Statistik*

**Lieven Clement (University of Gent)**

Wavelet based functional models for 'omics count profiles

16:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 19.1

**ETH Zürich**

*Talks in Financial and Insurance Mathematics*

**Prof. Dr. Nils Framstad (University of Oslo)**

Portfolio theory for a class of non-symmetric heavy-tailed distributions, and applicability to insurance

17:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43

**EPF Lausanne**

*Bernoulli Lectures*

**Victor Buchstaber (Russian Academy of Sciences, Moscow, Russia)**

Bernoulli Lecture III - Dynamical systems and heat equation

17:15 • EPF Lausanne, Salle BI AO 478

**Friday, October 25**

**Universität Basel**

*Seminar Algebra & Geometrie*

**Roland Lötscher (Universität München)**

Essential dimension of fibered categories

10:30 • Universität Basel, Mathematisches Institut, Rheinsprung 21, CH-4051 Basel, Kleiner Hörsaal

**Universität Basel**

*Seminar in Numerical Analysis*

**Ludovic Métivier (Université de Grenoble)**

Title T.B.A.

11:00 • Universität Basel, Mathematisches Institut, Rheinsprung 21, CH-4051 Basel, Grosser Hörsaal

**EPF Lausanne**

*Séminaire d'Analyse*

**Loïc Le Treust (Université de Rennes)**

A variational study of some hadron bag models

15:15 • EPF Lausanne, Salle MA A3 31

## Special Announcements

### Einstein Lectures 2013

*Prof. Cédric Villani, Université de Lyon und Institut Henri Poincaré, Paris*

Universität Bern

Oktober 28 - 30, 2013

<http://www.einsteinlectures.ch/>

address: Marianne Pfister, Departement Mathematik, ETH Zürich, Rämistrasse 101, CH-8092 Zürich  
email: [smg@math.ethz.ch](mailto:smg@math.ethz.ch) | fax: +41 44 632 1085 | phone: +41 44 632 5615 | url: <http://www.math.ch>

