

## Monday, October 7

## EPF Lausanne

Maria Yakerson (Universität Osnabrück)

Modules over Algebraic Cobordism

10:15 • EPF Lausanne, Salle MA 10

Séminaire de Topologie

## Universität Zürich

Prof. Dr. Christopher Deninger (Westfälische Wilhelms-Universität Münster)

Dynamical systems for arithmetic schemes

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

Oberseminar: Algebraische Geometrie

## Université de Genève

Jonathan Hermon (University of Cambridge)

Anchored expansion in supercritical percolation on nonamenable graphs

15:15 • Université de Genève, Section Mathématiques, Centre Acacias II, Salle 17

Séminaire de Mathématique Physique

## ETH Zürich

Baptiste Chantraine (University of Nantes)

Generation of the wrapped Fukaya category of a Weinstein sector

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

Symplectic Geometry Seminar

## ETH Zürich

Prof. Gitta Kutyniok (TU Berlin)

Deep Learning meets Modeling: Taking the Best out of Both Worlds

16:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 19.2

ETH-FDS Seminar and Annual Stiefel Lecture

## ETH Zürich

Prof. Dr. Gitta Kutyniok (TU Berlin)

Deep Learning meets Modeling: Taking the Best out of Both Worlds

16:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 19.2

Zurich Colloquium in Applied and Computational Mathematics

## Université de Genève

Jérémy Blanc (Universität Basel)

Quotients of higher dimensional Cremona groups

16:30 • Université de Genève, Villa Battelle, 7 route de Drize, 1227 Carouge

Séminaire "Fables Géométriques"

## Universität Bern

Prof. Dr. Shafi Goldwasser (Simons Institute, UC Berkeley, USA)

The Cryptographic Lens

19:30 • Universität Bern, Hochschulstrasse 4, 3012 Bern, Aula (Main Building)

Einstein Lectures

## Tuesday, October 8

## ETH Zürich

Craig Evans (University of California, Berkeley)

Weak Convergence Methods for Nonlinear Partial Differential Equations

10:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43

Nachdiplomvorlesung

## Université de Genève

Jérémy Dubout (Université de Genève)

Spectral theory in the case of infinite graphs, and spectral zeta function

10:30 • Université de Genève, Section Mathématiques, 2-4, rue du Lièvre, Salle 623

Groupes et Géométrie

## EPF Lausanne

Ian Petrow (ETH Zürich)

The fourth moment of Dirichlet L-functions along a coset and the Weyl bound

14:15 • EPF Lausanne, Salle tba

Groups, Arithmetic and Algebraic Geometry Seminar

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>EPF Lausanne</b><br><b>Anders Södergren (University of Copenhagen)</b><br>Non-vanishing of cubic Dedekind zeta functions<br>15:30 • EPF Lausanne, Salle GR A3 30                                                                   | <i>Groups, Arithmetic and Algebraic Geometry Seminar</i> |
| <b>Universität Bern</b><br><b>Prof. Dr. Shafi Goldwasser (Simons Institute, UC Berkeley, USA)</b><br>Pseudo Deterministic Algorithms and Proofs<br>17:15 • Universität Bern, Hochschulstrasse 4, 3012 Bern, Aula (Main Building)      | <i>Einstein Lectures</i>                                 |
| <b>Wednesday, October 9</b>                                                                                                                                                                                                           |                                                          |
| <b>Université de Fribourg</b><br><b>Loreno Heer (Universität Zürich)</b><br>Möbius maps and the boundary at infinity of metric spaces<br>10:20 • Université de Fribourg, Chemin du Musée 23, Lonza (Math II) seminar room             | <i>Oberseminar Geometrie</i>                             |
| <b>ETH Zürich</b><br><b>Bill Duke (University of California, Los Angeles)</b><br>Topics in modern analytic number theory<br>13:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43                                      | <i>Nachdiplomvorlesung</i>                               |
| <b>ETH Zürich</b><br><b>Dr. Maria Yakerson (Universität Osnabrück)</b><br>Infinite loop spaces in classical and motivic homotopy theory<br>13:30 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 19.2                     | <i>Algebraic Geometry and Moduli Seminar</i>             |
| <b>Universität Zürich</b><br><b>Kenneth G. Paterson (ETH Zürich )</b><br>Primality Testing in the Wild<br>15:00 • UZH Irchel, Winterthurerstrasse 190, Zürich, Building Y27, Room H 28                                                | <i>Seminar on Coding Theory and Cryptography</i>         |
| <b>ETH Zürich</b><br><b>Matthieu Dussaule (Université de Nantes)</b><br>The Guivarc'h inequality in relatively hyperbolic groups<br>15:45 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43                              | <i>Geometry Seminar</i>                                  |
| <b>Universität Zürich</b><br><b>Raffael Schüürmann (Universität Zürich)</b><br>Gröbner Basis algorithms and applications in Multivariate Cryptography<br>16:15 • UZH Irchel, Winterthurerstrasse 190, Zürich, Building Y27, Room H 28 | <i>Seminar on Coding Theory and Cryptography</i>         |
| <b>EPF Lausanne</b><br><b>Amir Shpilka (Tel-Aviv University)</b><br>Sylvester-Gallai Type Theorems for Quadratic Polynomials<br>16:15 • EPF Lausanne, Salle BC229                                                                     | <i>Theory and Combinatorics Seminar</i>                  |
| <b>EPF Lausanne</b><br><b>Ran Levi (University of Aberdeen)</b><br>Title T.B.A.<br>16:15 • EPF Lausanne, Campus Biotech                                                                                                               | <i>Seminar of Applied Topology</i>                       |
| <b>ETH Zürich</b><br><b>Thomas Lehericy (Universität Zürich)</b><br>Uniform mixing time and bottlenecks in random quadrangulations<br>17:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43                            | <i>Seminar on Stochastic Processes</i>                   |
| <b>Universität Bern</b><br><b>Shafi Goldwasser (Simons Institute, UC Berkeley, USA)</b><br>Safe Machine Learning<br>19:30 • Universität Bern, Hochschulstrasse 4, 3012 Bern, Aula (Main Building)                                     | <i>Einstein Lectures</i>                                 |

## Thursday, October 10

**ETH Zürich**

*Nachdiplomvorlesung*

**Juan-Pablo Ortega (Universität St. Gallen)**

Machine Learning of Dynamic Processes with Applications to Forecasting

10:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43

**ETH Zürich**

*Talks in Mathematical Physics*

**Ivan Cherednik (ETH-ITS and UNC Chapel Hill)**

Torus iterated links via double affine Hecke algebras III

14:00 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43

**Universität Basel**

*Seminar Zahlentheorie*

**Anders Södergren (Chalmers University of Technology)**

Non-vanishing of cubic Dedekind zeta functions

14:15 • Universität Basel, Fachbereich Mathematik, Spiegelgasse 5, Seminar Room 05.001

**EPF Lausanne**

*Groups, Arithmetic and Algebraic Geometry Seminar*

**Giulio Orecchia (Université de Rennes 1)**

A criterion for existence of Néron models

15:15 • EPF Lausanne, Salle GR C0 01

**ETH Zürich**

*Talks in Financial and Insurance Mathematics*

**Zenghu Li (Beijing Normal University)**

The approach of stochastic equations for continuous-state branching processes

17:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 19.1

**ETH Zürich**

*ITS Science Colloquium*

**Kannan Soundararajan (ETH-ITS and Stanford University)**

Primes, randomness, and the gambler's fallacy

17:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room E 1.2

**Universität Zürich**

*Seminar PDE and Mathematical Physics*

**Prof. Dr. Frédéric Naud (Université d'Avignon)**

[Video] Resonances and spectral gap of random hyperbolic surfaces

18:10 • UZH Irchel, Winterthurerstrasse 190, Zürich, Building Y27, Room H 35/36

## Friday, October 11

**EPF Lausanne**

*Talks in Mathematical Finance*

**Anna Obizhaeva (New Economic School, Moscow)**

Dimensional Analysis, Leverage Neutrality, and Market Microstructure Invariance

10:30 • EPF Lausanne, Quartier UNIL - Dorigny, Salle Extranef 126

**ETH Zürich**

*Research Seminar in Statistics*

**Ashia Wilson (Microsoft Research)**

The risk of approximate cross validation

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

**ETH Zürich**

*Algebraic Geometry and Moduli Seminar*

**Dr. Maria Yakerson (Osnabrück University)**

Higher algebraic cobordism

16:00 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43

## Special Announcements

### Number Theory Days

ETH Zürich

October 25-26, 2019

<https://math.ethz.ch/fim/conferences/number-theory-days-2019.html>

### Annual Stiefel Lecture 2019

*David Donoho (Stanford)*

ETH Zürich

November 8, 2019

<https://math.ethz.ch/sfs/research/fds/events.html>

### Dedekind Lectures

*Hourya Benis Sinaceur*

ETH Zürich

November 21, 2019

<https://people.math.ethz.ch/~halorenz/dedekind.html>

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>

