

**Monday, November 12****EPF Lausanne**

Applications of Partition Functions  
08:00 • EPF Lausanne, Salle BI A0 448

*Workshop CIB***Université de Neuchâtel**

**Dr. Maria Dostert (EPF Lausanne)**  
Sphere packing and semidefinite programming  
10:30 • Université de Neuchâtel, UniMail, room B 217

*Minicourse***Université de Genève**

**Damien Gayet (Université Grenoble I)**  
Percolation without FKG  
15:15 • Université de Genève, Section Mathématiques, 2-4, rue du Lièvre, Salle 17

*Séminaire de Mathématique Physique***EPF Lausanne**

**Prof. Dr. Z.J. Wang (University of Kansas)**  
Title T.B.A.  
16:15 • EPF Lausanne, Salle MA A1 10

*Seminar of Numerical Analysis***Universität Bern**

**Prof. Dr. Barry Barish (California Institute of Technology, Pasadena)**  
From Einstein to Gravitational Waves  
19:30 • Universität Bern, Sidlerstrasse 5, 3012 Bern, Aula, Hauptgebäude

*Einstein Lectures***Tuesday, November 13****EPF Lausanne**

Applications of Partition Functions  
08:00 • EPF Lausanne, Salle BI A0 448

*Workshop CIB***EPF Lausanne**

**Cary Malkiewich (Binghamton University)**  
Title T.B.A.  
10:15 • EPF Lausanne, Salle CM 1 113

*Séminaire de Topologie***Université de Neuchâtel**

**Dr. Maria Dostert (EPF Lausanne)**  
Sphere packing and semidefinite programming  
10:30 • Université de Neuchâtel, UniMail, room B 217

*Minicourse***Universität Basel**

**Lukas Lewark (Universität Bern)**  
Positivity, Graphs and Unknotting  
10:30 • Universität Basel, Fachbereich Mathematik, Spiegelgasse 5, Seminar Room 00.003

*Seminar Algebra & Geometrie***EPF Lausanne**

**Alexander Lipton (SilaMoney, MIT & EPF Lausanne)**  
Stochastic Processes in Domains with Boundaries and Some of Their Financial Applications  
12:00 • EPF Lausanne, Salle CM 1 113

*Talks in Mathematical Finance***ETH Zürich**

**Prof. Dr. Weinan E (Princeton University)**  
Machine Learning and Multi-scale Modeling  
13:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 19.1

*Zurich Colloquium in Mathematics*

<p><b>Université de Genève</b>  <b>Ron Haynes (Memorial University of Newfoundland)</b>  Parallel methods for PDE based mesh generation and other nonlinear problems  14:00 • Université de Genève, Section Mathématiques, 2-4, rue du Lièvre, Salle 623</p>	<p><i>Séminaire d'Analyse Numérique</i></p>
<p><b>EPF Lausanne</b>  <b>Paloma Bengoechea Duro (ETH Zürich)</b>  Periods of modular functions around Markov geodesics  14:15 • EPF Lausanne, Salle PH H3 33</p>	<p><i>Groups, Arithmetic and Algebraic Geometry Seminar</i></p>
<p><b>ETH Zürich</b>  <b>Prof. Dr. Enno Lenzmann (Universität Basel)</b>  A New Rearrangement Technique in Fourier Space and Symmetry Results for Higher-Order PDE  15:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43</p>	<p><i>Analysis Seminar</i></p>
<p><b>Universität Bern</b>  <b>Barry Barish (California Institute of Technology, Pasadena)</b>  Gravitational Waves: Detectors and Detection  17:15 • Universität Bern, Sidlerstrasse 5, 3012 Bern, Aula, Hauptgebäude</p>	<p><i>Einstein Lectures</i></p>

<p><b>Wednesday, November 14</b></p>	
<p><b>EPF Lausanne</b>  Applications of Partition Functions  08:00 • EPF Lausanne, Salle BI A0 448</p>	<p><i>Workshop CIB</i></p>
<p><b>ETH Zürich</b>  <b>Prof. Dr. Sebastian Baader (Universität Bern)</b>  Geometry of Surfaces  10:00 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43</p>	<p><i>Nachdiplomvorlesung</i></p>
<p><b>Universität Basel</b>  <b>Marius Schmidt (Universität Basel)</b>  Oriented first passage percolation on the hypercube  11:00 • Universität Basel, Fachbereich Mathematik, Spiegelgasse 1, Room 00.003</p>	<p><i>Seminar in Probability Theory</i></p>
<p><b>EPF Lausanne</b>  <b>Francesca Balestrieri (Max Planck Institute, Bonn)</b>  Arithmetic of zero-cycles on products of Kummer varieties and K3 surfaces  14:00 • EPF Lausanne, Salle MA A1 12</p>	<p><i>Groups, Arithmetic and Algebraic Geometry Seminar</i></p>
<p><b>EPF Lausanne</b>  <b>Dejan Govc (University of Aberdeen)</b>  Rips magnitude  15:00 • EPF Lausanne, B1.05, Videoconference room, Campus Biotech</p>	<p><i>Seminar of Applied Topology</i></p>
<p><b>Universität Zürich</b>  <b>Jens Zumbrägel (Universität Passau)</b>  Title T.B.A.  15:00 • UZH Irchel, Winterthurerstrasse 190, Zürich, Building Y27, Room H 12</p>	<p><i>Seminar on Coding Theory and Cryptography</i></p>
<p><b>ETH Zürich</b>  <b>Dr. Quoc Ho (IST Austria)</b>  Densities and stability via factorization homology  15:30 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 19.2</p>	<p><i>Algebraic Geometry and Moduli Seminar</i></p>
<p><b>ETH Zürich</b>  <b>Michele Triestino (Université de Bourgogne, Dijon)</b>  The geometry of discrete groups of circle diffeomorphisms  15:45 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43</p>	<p><i>Geometry Seminar</i></p>

<p><b>ETH Zürich</b>  <b>Sebastien Ott (Université de Genève)</b>  Ornstein-Zernike theory for lattice spin models, an overview of the construction  17:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43</p>	<p><i>Seminar on Stochastic Processes</i></p>
<p><b>Universität Bern</b>  <b>Barry Barish (California Institute of Technology, Pasadena)</b>  Gravitational Waves and a Future New Science  19:30 • Universität Bern, Sidlerstrasse 5, 3012 Bern, Aula, Hauptgebäude</p>	<p><i>Einstein Lectures</i></p>
<p><b>Thursday, November 15</b></p>	
<p><b>EPF Lausanne</b>  Applications of Partition Functions  08:00 • EPF Lausanne, Salle BI A0 448</p>	<p><i>Workshop CIB</i></p>
<p><b>Universität Zürich</b>  <b>Prof. Dr. Massimiliano Berti (SISSA)</b>  Dynamics of Water Waves  15:00 • UZH Irchel, Winterthurerstrasse 190, Zürich, Building Y27, Room H 46</p>	<p><i>PDE and Mathematical Physics</i></p>
<p><b>EPF Lausanne</b>  <b>Gabor Elek (University of Lancaster)</b>  Qualitative graph limits and the space of Cantor actions  15:00 • EPF Lausanne, Salle MA 10</p>	<p><i>Ergodic and Geometry Group Theory</i></p>
<p><b>ETH Zürich</b>  <b>Léa Bittmann (Université Paris Diderot)</b>  Title T.B.A.  15:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 46</p>	<p><i>Talks in Mathematical Physics</i></p>
<p><b>Université de Genève</b>  <b>Maryna Viazovska (EPF Lausanne)</b>  Title T.B.A.  16:15 • Université de Genève, Section Mathématiques, 2-4, rue du Lièvre, Salle 17</p>	<p><i>Colloque de Mathématiques</i></p>
<p><b>EPF Lausanne</b>  <b>Prof. Dr. Weinan E (Princeton University)</b>  Machine Learning and Multi-scale Modeling  17:15 • EPF Lausanne, Salle CM 4</p>	<p><i>Mathematics Colloquium</i></p>
<p><b>ETH Zürich</b>  <b>Kathrin Glau (Queen Mary University of London)</b>  Magic Point Integration: A Numerical Learning Algorithm for Parametric Option Pricing  17:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43</p>	<p><i>Talks in Financial and Insurance Mathematics</i></p>
<p><b>Friday, November 16</b></p>	
<p><b>EPF Lausanne</b>  Applications of Partition Functions  08:00 • EPF Lausanne, Salle BI A0 448</p>	<p><i>Workshop CIB</i></p>
<p><b>EPF Lausanne</b>  <b>Alberto Rossi (University of Maryland)</b>  Machine Learning, Asset Pricing and FinTech  10:30 • EPF Lausanne, Quartier UNIL - Dorigny, Salle Extranef 126</p>	<p><i>Talks in Mathematical Finance</i></p>
<p><b>Universität Basel</b>  <b>Ludovic Métivier (Université Grenoble Alpes)</b>  Optimal transport in seismic imaging based on full waveform inversion  11:00 • Universität Basel, Mathematisches Institut, Spiegelgasse 5, 4051 Basel, Raum 05.001</p>	<p><i>Seminar in Numerical Analysis</i></p>

**ETH Zürich**

**Dr. Job Kuit (Universität Paderborn)**

Title T.B.A.

14:15 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43

*Number Theory Seminar*

**Université de Neuchâtel**

**H. Mercier (Université de Neuchâtel)**

Juger les juges: évaluer la performance des juges sportifs internationaux

14:15 • Université de Neuchâtel, Institut de Mathématiques, Rue Emile - Argand 11, ALG, F200

*Séminaire Mathématiques et Société*

**ETH Zürich**

**Prof. Dr. David Holmes (University of Leiden)**

A formula for the canonical double ramification cycle

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

*Algebraic Geometry and Moduli Seminar*

**EPF Lausanne**

**Christophe Michel Gippa (EPF Lausanne)**

Kazhdan's Property (T) and Property (FH) for measured groupoids

16:15 • EPF Lausanne, Salle MA A3 30

*Soutenance de Thèse*

## Special Announcements

### Ludwig Schläfli Lectures

*Tamar Ziegler (Hebrew University of Jerusalem)*

University of Bern

November 19, 2018

<https://mathsites.unibe.ch/jdraisma/schlaefli2018.html>

### SIAM Conference on Applied Algebraic Geometry

University of Bern

July, 9-13, 2019

### **Minisymposium proposal submission: November 15, 2018**

<https://mathsites.unibe.ch/siamag19/>

### Borel Seminar 2018

*Topology and Dynamics in the Swiss Alps*

Les Diablerets

December 3-7, 2018

<http://www.unige.ch/math/folks/neofytid/Borel2018/index.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>

