

Monday, December 16

ETH Zürich

[Nachdiplomvorlesung](#)**Tom Mrowka (Massachusetts Institute of Technology)**

Floer homology of three manifolds and applications to low dimensional topology

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

EPF Lausanne

[Theory and Combinatorics Seminar](#)**Eleonore Bach**

Smoothed analysis of the Simplex method: nearly tight noise dependence

11:00 • EPF Lausanne

Universität Zürich

[Talks in Mathematical Physics](#)**Konstantin Wernli (Centre for Quantum Mathematics, University of Southern Denmark)**

Gluing formulas for heat kernels

13:30 • UZH Irchel, Winterthurerstrasse 190, Zürich, Building Y27, Room H 25

Université de Genève

[Séminaire d'Analyse Numérique](#)**Thibaut Lunet (TU Hamburg)**

Toward the use of Machine-Learning models to improve the initial guess of iterative time-integration schemes

15:00 • Université de Genève, Conseil Général 7-9, Room 1-05

ETH Zürich

[Symplectic Geometry Seminar](#)**Tom Mrowka (MIT)**

Instanton Floer homology for 3-manifolds, knot and webs: what's next?

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

Universität Bern

[Mathematisches Kolloquium](#)**Dr. Sara Kališnik Hintz (ETH Zürich)**[On the Applications of Topology](#)

17:15 • Universität Bern, Sidlerstrasse 5, 3012 Bern, Room B6

Tuesday, December 17

ETH Zürich

[Nachdiplomvorlesung](#)**Gigliola Staffilani (Massachusetts Institute of Technology)**

Dispersive equations and wave turbulence theory

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

Université de Genève

[Groupes et Géométrie](#)**Andrés Navas (Universidad de Santiago de Chile)**

The asymptotic variation of a 1-D diffeomorphisms and the growth of derivatives

10:30 • Université de Genève, Conseil Général 7-9, Room 1-05

EPF Lausanne

[Theory and Combinatorics Seminar](#)**Orr Paradise**

Models that prove their own correctness

11:00 • EPF Lausanne, BC 420

Université de Genève

[Séminaire d'Analyse Numérique](#)**Joackim Bernier (Nantes Université)**

Infinite dimensional invariant tori for nonlinear Schrödinger equations

14:00 • Université de Genève, Conseil Général 7-9, Room 1-05

Université de Genève

[Lie groups and moduli spaces](#)**Yanpeng Li (Sichuan University)**

Polynomial integrable systems from cluster structures

15:30 • Université de Genève, Conseil Général 7-9, Room 1-07

ETH Zürich

Dr. Denis Nesterov (ETH Zürich)

Stable maps and admissible covers

16:00 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 19.1

[Algebraic Geometry and Moduli Seminar](#)

Universität Zürich

Ludovica Buelli (University of Genoa)

What is... Hyperkähler Geometry?

16:30 • UZH Zentrum, Building KO2, Room F 150

[Zurich Graduate Colloquium](#)

Wednesday, December 18

EPF Lausanne

Masoud Kamgarpour

Title T.B.A.

10:15 • EPF Lausanne, CM 1 100

[Groups, Arithmetic and Algebraic Geometry Seminar](#)

EPF Lausanne

Anders Karlsson (University of Geneva)

[A fixed point theorem for isometries](#)

11:15 • EPF Lausanne, CH B3 31

[Geometry Seminar](#)

ETH Zürich

Dr. Sam Canning (ETH Zürich)

Title T.B.A.

13:30 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G G43

[Algebraic Geometry and Moduli Seminar](#)

Universität Zürich

Blerim Alimehaj

$\setminus(b)$ -Symbol Weight Distribution of Irreducible Cyclic Codes

15:15 • UZH Irchel, Winterthurerstrasse 190, Zürich, Building Y27, Room H 28

[Neuchatel - St.Gallen - Zurich Seminar in Coding Theory and Cryptography](#)

ETH Zürich

Andrew Lobb (Durham University, UK)

Symplectic geometry and peg problems

15:30 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 43

[Geometry Seminar](#)

Universität Zürich

Luana Kurmann

Cayley Graphs with Large Girth and Constructions of LDPC Codes

16:15 • UZH Irchel, Winterthurerstrasse 190, Zürich, Building Y27, Room H 28

[Neuchatel - St.Gallen - Zurich Seminar in Coding Theory and Cryptography](#)

ETH Zürich

Prof. Dr. Dirk Pauly (TU Dresden)

Traces for Hilbert Complexes

16:30 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room G 19.2

[Zurich Colloquium in Applied and Computational Mathematics](#)

ETH Zürich

Michel Devoret (University of California Santa Barbara)

The Physics of Information

17:00 • ETH Zentrum, Rämistrasse 101, Zürich, Building HG, Room F 30

Paul Bernays Lectures

ETH Zürich

Dr. Dirk Zeindler (Lancaster University)

Partitions into semi-primes

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

[Seminar on Stochastic Processes](#)

Thursday, December 19

EPF Lausanne

[Statistics Seminar](#)

Alberto Bietti (Flatiron Institute)

Associative memories as a building block in Transformers

10:15 • EPF Lausanne, ELA 2

ETH Zürich

Paul Bernays Lectures

Michel Devoret (University of California Santa Barbara)

Error correction of a logical quantum bit beyond the break-even point

17:00 • ETH Zentrum, Building HCI, Room G 7

ETH Zürich

[Talks in Financial and Insurance Mathematics](#)

[Prof. Dr. Max Nendel \(Bielefeld University\)](#)

Upper Comonotonicity and Risk Aggregation under Dependence Uncertainty

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

Friday, December 20

ETH Zürich

Paul Bernays Lectures

Michel Devoret (University of California, Santa Cruz)

Driven unwanted state transitions in superconducting quantum circuits

17:00 • ETH Zentrum, Building HCI, Room G 7

Special Announcements

[Géométrie des groupes et groupes de Cremona](#)

University of Neuchâtel
December 16 - 18, 2024

[SwissMAP Research Station: Scientific Program 2025](#)

SwissMAP Research Station, Les Diablerets
January - October, 2025

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