

## All mathematics lectures 2016

- 22/12/2016: An introduction to multifractal, Stéphane Seuret (Marne-la-Vallée and Luxembourg), 14:00, Room B24A, CK, [Probability Seminar](#)
- 19/12/2016: Rigidity and Flexibility for Handlebody Groups, Sebastian Hensel (Bonn), 15:00, Room B24B, CK, [Geometry and Topology seminar](#)
- 13-15/12/2016: [Leibniz Algebras and Higher Structures](#), Organiser: Martin Schlichenmaier, Ping Xu, Olivier Elchinger
- 12/12/2016: Cascades in the dynamics of interval exchange transformations, Selim Ghazouani (Paris), 15:00, Room B24A, CK, [Geometry and Topology seminar](#)
- 07/12/2016: Computing in unit groups of orders with Voronoi's algorithm, Sebastian Schönnenbeck (RWTH Aachen), 16:00, Room RMATH research library, CK, [Working Group Algebra, Geometry and Quantization](#)
- 07/12/2016: Classification of Cauchy-compact flat 3-dimensionnal spacetimes with BTZ and related problems, Léo Brunswic, 13:30, Room B27, CK, [Geometry and Topology seminar](#)
- 06/12/2016: [Generalised shear coordinates for \(2+1\)-spacetimes](#), Catherine Meusburger (Friedrich-Alexander-Universität Erlangen-Nürnberg), 16:00, Room B02, CK, [General Mathematics Seminar](#)
- 06/12/2016: Nesting statistics in the  $O(n)$  loop model on random maps of any topology, Elba Garcia-Falde (Max Planck Institute for Mathematics), 14:00, Room A17, CK, [Working Group Algebra, Geometry and Quantization](#)
- 05/12/2016: Hopf fibrations and stochastic areas Monday, Fabrice BAUDOIN (University of Connecticut), 17:00, Room B23, CK, [Probability Seminar](#)
- 05/12/2016: Higher genus Kashiwara-Vergne problems and the Goldman-Turaev Lie bialgebra, Yusuke Kuno (Strasbourg), 15:00, Room B24A, CK, [Geometry and Topology seminar](#)
- 01-02/12/2016: [Conférence SL<sub>2</sub>R](#), Organiser: Martin Olbrich, Martin Schlichenmaier, Yannick Voglaire, 13:00, Room B21, CK
- 29/11/2016: Quantum Character varieties, Adrien Brochier (Max Planck Institute for Mathematics), 14:00, Room B27, CK, [Working Group Algebra, Geometry and Quantization](#)
- 28/11/2016: Proper affine actions of right-angled Coxeter groups, Fanny Kassel (IHES), 15:00, Room B24, CK, [Geometry and Topology seminar](#)
- 24/11/2016: Quantum ergodicity and Benjamini-Schramm convergence of hyperbolic surfaces, Etienne Le Masson (University of Bristol), 16:00, Room B04, CK, [Probability Seminar](#)
- 22/11/2016: Special Bohr - Sommerfeld geometry, Nikolai Tyurin (Max Planck Institute for Mathematics), 14:00, Room Paul Feidert, CK, [Working Group Algebra, Geometry and Quantization](#)
- 22/11/2016: [Analysis on singular and noncompact spaces and Lie algebroids](#), Victor Nistor (Université de Lorraine, Metz), Room: B02, CK, [General Mathematics Seminar](#)
- 21/11/2016: [Norm convergence for random unitary multimatrix models and Quantum Information Theory](#), Benoit Collins (Université de Kyoto, Japon), 16:00, Room A17, CK, [General Mathematics Seminar](#)
- 15/11/2016: [Differential geometric methods in number theory](#), Gunther Cornelissen, 16:00, Room B02, CK, [Mathematic Colloquium](#)
- 14/11/2016: Margulis spacetimes and Anosov representations, Sourav Ghosh (Heidelberg), 15:00, Room B24, CK, [Geometry and Topology seminar](#)
- 10/11/2016: Mini course Geometry and dynamics of fields in de Sitter and anti de Sitter space-times, Emil Akhmedov (HSE/ITEP Moscow), 14:15, Room B27, CK
- 08/11/2016: Mini course Geometry and dynamics of fields in de Sitter and anti de Sitter space-times, Emil Akhmedov (HSE/ITEP Moscow), 14:00, Room B27, CK
- 07/11/2016: Spacelike-Zoll surfaces with a Killing field, Pierre Mounoud (Bordeaux), 15:00, Room B24A, CK, [Geometry and Topology seminar](#)
- 03/11/2016: Maximal surfaces in Anti-de Sitter space and quasiconformal minimal Lagrangian maps of the hyperbolic plane, Andrea Seppi (Pavia), 11:15, Room B24B, CK, [Geometry and Topology seminar](#)
- 31/10/2016: A compactness theorem for surfaces with Bounded Integral Curvature, Clément Debín (Grenoble), 15:00, Room B24A, CK, [Geometry and Topology seminar](#)
- 25/10/2016: [Teichmüller theory and analytic foundations of conformal field theory](#), David Radnell (Aalto University, Helsinki), 16:00, Room B02, CK, [General Mathematics Seminar](#)

- 25/10/2016: The explicit quasi-isomorphism from Kontsevich's graph complex to the Oriented graph complex, Marko Zivkovic, 14:00, CK, Working Group Algebra, Geometry and Quantization
- 24/10/2016: High-order winding numbers and helicity, Faik Mayah (Galway), 15:00, Room B24A, CK, Geometry and Topology seminar
- 20/10/2016: Edgeworth expansion for Euler approximation of continuous diffusion processes, Mark Podolskij (Aarhus University), 14:30, Room C17, CK, Probability Seminar
- 18/10/2016: Roland Speicher (Saarland University)
- 13/10/2016: Projective Structures with holonomy in (Quasi-)Hitchin representations, Qionglin Li (MSRI, Berkeley), 11:15, Room A16, CK, Geometry and Topology seminar
- 11/10/2016: Topological quantum field theory: symmetries and defects, Nils Carqueville (University of Vienna, Austria), 16:00, Room B02, CK, General Mathematics Seminar
- 11/10/2016: Moduli of matrix divisors on Riemann surfaces, Oleg K. Sheinman (Steklov Mathematical Institute, Moscow), 14:00, Room B27, CK, Working Group Algebra, Geometry and Quantization
- 10/10/2016: Topological quantum field theory: from state sum models to orbifolds, Nils Carqueville (University of Vienna, Austria), 16:00, Room B24A, CK, Geometry and Topology seminar
- 10/10/2016: Applications of compatibility complexes and their cohomology in relativity and gauge theories, Igor Khavkine (Department of Mathematics, University of Rome 2), 14:15, Room B24A, CK, Algebraic Topology, Geometry and Physics
- 21/09/2016: La conjecture de Poincaré : une épopée mathématique, Gérard Besson (Institut Fourier Grenoble), 18:00, Auditoire BS0.03, CL, General audience talk
- 20/09/2016: Examples of open subsets of  $S^3$ , Gérard Besson (Institut Fourier Grenoble), 16:00, Room B14, CK, Mathematics Colloquium
- 15/09/2016: bm-Symplectic manifolds: Going to infinity and coming back, Eva Miranda (Universitat Politècnica de Catalunya, Spain), 14:00, Room A02, CK, General Mathematics Seminar
- 19/07/2016: Constant curvature surfaces in anti-de Sitter space, Francesco Bonsante (Pavia), 14:00, Room B14, CK, Geometry and Topology seminar
- 11-15/07/2016: Workshop on Bianchi Modularity, Organiser: Gabor Wiese, Alexander Rahm, Room B02, CK
- 05-08/07/2016: Workshop ISAS 2016, Organisers: Jean Luc Marichal, Bruno Teheux
- 07/07/2016: Geometricity of noncommutative quadrics and Orlov's conjecture, Pieter Belmans (Université d'Anvers), 14:00, Room B04, CK, Working Group Algebra, Geometry and Quantization
- 05/07/2016: Chromatic numbers for hyperbolic surfaces, Hugo Parlier (University of Fribourg, Switzerland), 16:00, Room B02, CK, General Mathematics Seminar
- 21/06/2016: Symplectic realizations of holomorphic Poisson manifolds, Ping Xu (Penn State University), 17:00, Lecture room of the library (Bloc G), CK, Working Group Algebra, Geometry and Quantization
- 21/06/2016: Solving the Color Cubes Puzzle, Ethan Berkove (Lafayette College, PA), 16:00, Room B02, CK, General Mathematics Seminar
- 20/06/2016: Edge-cone Einstein metrics and the Yamabe invariant, Kazuo Akutagawa (Tokyo), 16:00, Room G002, CK, Geometry and Topology seminar
- 15/06/2016: Universality in marginally relevant disordered systems, Francesco Caravenna (Milano-Bicocca), 14:30, Room B27, CK, Probability Seminar
- 15/06/2016: Introduction to associated cycles of Harish-Chandra modules, Roger Zierau (Oklahoma State University), 11.00, Library room building G, CK, Harmonic and Geometric Analysis
- 14/06/2016: Scaling and Universality in Probability, Francesco Caravenna (Università degli Studi di Milano-Bicocca, Italy), 16:00, Room B02, CK, Colloquium
- 13/06/2016: A classification of Gradient Shrinking Ricci Solitons, Lei Ni (University of California, San Diego), 16:00, Room B02, CK, General Mathematics Seminar
- 09/06/2016: Kirillov and Jacobi structures up to homotopy, Andrew Bruce (Warsaw), 14:15, Room B17, CK, Algebraic Topology, Geometry and Physics
- 08/06/2016: Infinite ball packings from hyperbolic reflection groups, Hao Chen (Université de Eindhoven), 16:15, Room B04, Geometry and Topology seminar
- 07/06/2016: Critical exponent for globally hyperbolic manifolds in anti-de Sitter geometry, Olivier Glorieux (Rio de Janeiro), 11:00, Room B04, CK, Geometry and Topology seminar
- 06/06/2016: A cohomological obstruction to the existence of compact Clifford-Klein forms, Yosuke Morita (Tokyo), 16:15, Room G002, CK, Geometry and Topology seminar

- 26/05/2016: On the Chaotic Representation Property of Compensated-Covariation Stable Families of Martingales, Paolo DI TELLA (TU Dresden), 16:00, Room B23, CK, Probability Seminar
- 26/05/2016: A modern approach to the Riemann-Hilbert correspondence, Pierre Schapira (Paris), 14:15, Room B27, CK, Algebraic Topology, Geometry and Physics
- 24/05/2016: Dirac cohomology and Dirac index, Salah Mehdi, 10:30, library room, CK, Harmonic and Geometric Analysis
- 19/05/2016: Reciprocal characteristics and concentration of measure, Giovanni CONFORTI (Universität Leipzig), 15:00, Room B02, CK, Probability Seminar
- 18/05/2016: Simple length rigidity for Kleinian surface groups and applications, Martin Bridgeman (Boston College), 16:00, Room B14, CK, Geometry and Topology seminar
- 18/05/2016: (Hyper-)Kähler geometry of character varieties, Brice Loustau (Rutgers University), 11:00, Room B24A, CK, Geometry and Topology seminar
- 17/05/2016: Random walks on random symmetric groups, Andrzej ZUK (Paris 7), 16:00, Room B02, CK, General Mathematics Seminar
- 17/05/2016: A field theory on cobordisms endowed with cellular decomposition, Pavel Mnev (Max Planck Institute for Mathematics), 14:00, Room Salle des Conseils, CK, Working Group Algebra, Geometry and Quantization
- 17/05/2016: Dirac operators and Dirac cohomology, Sarah Mehdi (Metz), 10:30, Library room, CK
- 12/05/2016: The discrete Malliavin-Stein method for normal and Poisson approximation, Kai Krokowski (Ruhr-Universität Bochum), 16:00, Room B23, CK, Probability Seminar
- 12/05/2016: The exponential transform of a path: a faithful representation, Xi Geng (University of Oxford), 15:00, Room B02, CK, Probability Seminar
- 12/05/2016: Singular locus of the character variety in  $PSL(p,C)$ , Clément Guérin (Strasbourg), 14:00, Room A17, CK, Geometry and Topology seminar
- 10/05/2016: Log-geometric invariants of the Tate curve, Hülya Argüz (Universität Hamburg), Room Salle des Conseils, CK, Working Group Algebra, Geometry and Quantization
- 09/05/2016: Polynomial automorphisms of  $C^n$  preserving the Markoff-Hurwitz polynomial – identities, Ser Peow Tan (Singapore), Room G002, CK, Geometry and Topology seminar
- 02/05/2016: Locally homogeneous 3-dimensional Lorentzian metrics, Karin Melnick (University of Maryland), Room G002, CK, Geometry and Topology seminar
- 28/04/2016: Geometry of gerbes and topological insulators, Krzysztof Gawedzki (Lyon), 14:30, Room B27, CK, Algebraic Topology, Geometry and Physics
- 28/04/2016: A Theorem of Myers-Steenrod in Lorentzian geometry, Charles Frances (Strasbourg), 13:30, Room B27, CK, Geometry and Topology seminar
- 26/04/2016: Inequalities for eigenvalues of sums of self-adjoint operators and related intersection problems, Wing Suet Li, 16:00 Room B27, CK, General Mathematics Seminar
- 26/04/2016: Noncommutative moduli spaces, Bruno Vallette (Université Paris 13), Room A16, CK, Working Group Algebra, Geometry and Quantization
- 25/04/2016: On Convergence of some deformations towards the Gardiner-Masur compactification of Teichmüller space, Vincent Alberge (Université de Strasbourg, France), 16:00, Room G002, CK, Geometry and Topology seminar
- 21/04/2016: Categories of graded manifolds and n-fold vector bundles, Elizaveta Vishnyakova (Sao Paulo), 14:15, Room B27, CK, Algebraic Topology, Geometry and Physics
- 19/04/2016: Metrics on convex sets and on Teichmüller spaces, Athanase Papadopoulos (CNRS, Université de Strasbourg, France), 16:00 Room B02, CK, General Mathematics Seminar
- 19/04/2016: A renormalisation group for multiple zeta values, Dominique Manchon (CNRS - Université Blaise Pascal), 14:00, Room A16, CK, Working Group Algebra, Geometry and Quantization
- 12/04/2016: Quantum index of real plane curves and refined enumerative geometry, Grigory Mikhalkin, 16:00, Room B27, CK, General Mathematics Seminar
- 12/04/2016: Almost regular Poisson structures, Marco Zambon (Katholieke Universiteit Leuven), 14:00, Room A16, CK, Working Group Algebra, Geometry and Quantization
- 11/04/2016: An Introduction to character varieties - II, Daniel Matei (IMAR, Bucharest), 14:00, CK, A02, Reading Seminar on Geometry
- 07/04/2016: Wilson surface observables from equivariant cohomology, Olga Chekeres (Geneva), 14:15, room B27, CK, Seminar Algebraic Topology, Geometry and Physics

- 06/04/2016: Introduction to character varieties, Daniel Matei (from IMAR, Bucharest), Room B14, 15:30, CK, Reading seminar spring semester
- 24/03/2016: Asymptotic behaviour of hyperbolic surface bundles over circle, Ken'ichi Ohshika (Osaka), 15:30, Room B02, CK, [Geometry and Topology seminar](#)
- 22/03/2016: Hitchin connections for genus 0 quantum representations, Jens Kristian Egsgaard (Max Planck Institute for Mathematics), 14:00, Room A16, CK, [Working Group Algebra, Geometry and Quantization](#)
- 18/03/2016: On the regularity of solutions to BSDEs, Thibaut Mastrolia (Université Paris Dauphine), 14:00, Room B21, CK, [Probability Seminar](#)
- 17/03/2016: Integration of differential graded manifolds, Pavol Ševera (Geneva), 14:15 to 15:45, Room B27, CK, [Algebraic Topology, Geometry and Physics](#)
- 10/03/2016: Quasi-shuffles and Carnot groups, Roland FRIEDRICH (Universität des Saarlandes), 16:00, Room B23, CK, [Probability Seminar](#)
- 10/03/2016: Differentials in Graph Complexes, Marko Zivkovic (University of Zurich), 16:00, Room D18, CK, [Geometry and Topology seminar](#)
- 09-10-11/03/2016: Microformal geometry minicourses, Theodore Voronov (Manchester), 14:30, Room B14-B27-B17, CK, [Algebraic Topology, Geometry and Physics](#)
- 09/03/2016: Hyper-Kähler geometry of character varieties, Brice Loustau (Rutgers University), 15:30, Room B23, CK, [Geometry and Topology seminar](#)
- 08/03/2016: Poisson structures in derived algebraic geometry, Valerio Melani (Université Pierre et Marie Curie- Université Paris Diderot), Room A16, [Working Group Algebra, Geometry and Quantization](#)
- 01/03/2016: [Slit holomorphic stochastic flows](#), Alexander Vasiliev (University of Bergen, Norway), 16:00 Room B02, CK, [General Mathematics Seminar](#)
- 01/03/2016: Pseudo H-type algebras: research in progress, Irina Markina (University of Bergen, Norway), 14:00, Room B24A, CK, [Working Group Algebra, Geometry and Quantization](#)
- 23/02/2016: [The geometry of random spherical eigenfunctions](#), Domenico Marinucci (Rome, Tor Vergata), 16:00, Room B02, CK, [Colloquium](#)
- 22/02/2016: Locally homogeneous 3-dimensional Lorentzian metrics, Karin Melnick (University of Maryland), 16:00, CK, [Geometry and Topology seminar](#)
- 16/02/2016: [From Topological Vertex Algebras to Little Discs Algebras](#), Damien Lejay (Université Paris VI), 14:00, Room C02, CK, [Working Group Algebra, Geometry and Quantization](#)
- 11/02/2016: [On the semimartingale property of Brownian bridges on complete manifolds](#), Batu GÜNEYSU (Humboldt-Universität Berlin), 16:00, Room B04, CK, [Probability Seminar](#)
- 09/02/2016: Homotopy moment map, Yaël Frégier (Université d'Artois), Lecture Room of the Mathematics Library, BLG, ground level, 14:00-16:00, [Working Group Algebra, Geometry and Quantization](#)
- 09/02/2016: A formula for Non-Abelian Hodge theory through Gaiotto's conjecture, Prof. Dr. Motohico Mulase (University of California, Davis, USA), 16h, B02, [General Mathematics Seminar](#)
- 04/02/2016: [Regularity of distributions of Wigner integrals](#), Tobias Mai (Saarland), 16:00, Room B04, CK, [Probability Seminar](#)
- 02/02/2016: Generalizing Kashiwara's equivalence to conic quantized symplectic manifolds, Gwyn Bellamy (University of Glasgow), 14:00. Room A16, CK, [Working Group Algebra, Geometry and Quantization](#)
- 26/01/2016: [A transfer principle, from periods to isoperiodic foliation](#), Prof. Dr. Bertrand Deroin, (CNRS & École Normale Supérieure de Paris, France), 16:00, Room B04, CK, [General Mathematics Seminar](#)
- 23/01/2016: The geometry of random spherical eigenfunctions, Prof. Dr. Domenico Marinucci, (University of Rome "Tor Vergata", Italy), 16:00, Room B02, CK, [Colloquium](#)
- 18/01/2016: Conformal actions of semi-simple Lie groups on compact Lorentz manifolds, Vincent Pecastaing (Berlin), 16:00, Room G002, CK, [Geometry and Topology seminar](#)
- 14/01/2015: [Density and tube estimates for diffusions under Hörmander-type conditions](#), Paolo PIGATO (Inria Nancy - Grand Est), 16:00, Room C02, CK, [Probability Seminar](#)
- 07/01/2016: [Societe et stabilite: de la theorie aux conclusions](#), Prof. F. Thomas Bruss (Mathematics Department of the Université libre de Bruxelles), 19:00, Room Tavenas, CL, jointly organized by the [Luxembourg Statistical Society](#) and the [Mathematics Research Unit](#) (RMATH)