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Thibaut Lemoine

Education

2016–2020 **PhD in Mathematics**, *Sorbonne Université*, Paris (France), Subject: *Asymptotic representation theory and applications to Yang–Mills theory.*
Advisor: Thierry Lévy, LPSM

2014–2016 **MSc in Mathematics**, *Sorbonne Université*, Paris (France), *Probability and random models*
With honors

2013–2014 **MSc in Financial markets**, *EDHEC Business School*, Lille/Nice (France)

2012–2014 **BSc in Mathematics**, *Sorbonne Université*, Paris (France)

2010–2014 **Master in Management**, *EDHEC Business School*, Lille/Nice (France), *Financial Economics*

2008–2010 **Preparatory class to engineering schools (CPGE)**, *Lycée Janson de Sailly*, Paris (France), *MPSI–MP*

2008 **Baccalauréat Scientifique**, *Lycée Galilée*, Cergy (France)
With high honors

Articles

2022 Antoine Dahlqvist, Thibaut Lemoine, *Large N limit of the Yang–Mills measure on compact surfaces II: Makeenko–Migdal equations and planar master field*, arXiv:2201.05886

2022 Antoine Dahlqvist, Thibaut Lemoine, *Large N limit of Yang–Mills partition function and Wilson loops on compact surfaces*, arXiv:2201.05882

2021 Thibaut Lemoine, *Large N behaviour of the two-dimensional Yang–Mills partition function*, Combinatorics, Probability and Computing, 1-22, doi:10.1017/S0963548321000262

Talks

2022 Large deviations of empirical measures of Gibbs measures on a compact Riemann surface, *Workshop "a probabilistic approach to Kähler–Einstein metrics"*, IRMA, Strasbourg (France)

2022 Large N Limit of Yang–Mills partition function, *Spectra/moduli seminar*, Durham (UK)

2022 The master field on the torus, *14th meeting of the DynQua GDR*, IMT, Toulouse (France)

2021 Introduction to noncommutative probability, *Stochastic calculus seminar*, IRMA, Strasbourg (France)

2020 Noncommutative harmonic analysis of $\mathrm{U}(N)$ and application to $2D$ Yang–Mills theory, *Séminaire d'analyse*, IRMA, Strasbourg (France)

2020 Asymptotics of two-dimensional Yang–Mills partition function, *Bernoulli-IMS One World Symposium*, Online video seminar

2018 Free stochastic calculus with respect to q-Brownian motion, *Worskshop "noncommutative probability and rough paths"*, LPSM, Sorbonne Université, Paris (France)

2017 RSK algorithm applied to random permutations, *Workshop "Combinatorics and random matrix theory"*, Université Paris 7, Paris (France)

Seminars

2021 Physics and Mathematics colloquium: many-body localization, IRMA, Strasbourg (France)

2018 Scaling limits & SPDEs: recent developments and future directions, Isaac Newton Institute, Cambridge (UK)

2018 Randomness and symmetry, University College, Dublin (Irlande)

2017 Workshop on stochastic analysis and random fields, Technion, Haifa (Israël)

2017 Distributional symmetries and independences, Institut mathématique de Bordeaux, Bordeaux (France)

2017 Integrable random systems, representation theory and geometry of Lie groups, NCCR, Les Diablerets (Suisse)

Scientific duties

2022 Co-organisation of the conference "Quantum Hall effect and topological phases" and creation of the website (https://irma-web1.math.unistra.fr/QHETPS/), Université de Strasbourg, Strasbourg (France)

Teaching

2019–2020 **Tutorials in probability**, *L3*, Sorbonne Université, Paris (France)

2019–2020 **Tutorials in probability**, *1st year*, ISUP, Paris (France)

2019–2020 **Tutorials in general mathematics**, *L1*, Sorbonne Université, Paris (France)

2016–2019 **Tutorials in C++ programing for mathematicians**, *M1*, Sorbonne Université, Paris (France)

2016–2018 **Tutorials in multivariable analysis**, *L2*, Sorbonne Université, Paris (France)

Work experience

2020–2022 **Postdoctoral fellowship on the project "Geometry of quantum Hall states"**, *IRMA*, Université de Strasbourg, Strasbourg (France)

2019–2020 **Attaché temporaire d'enseignement et de recherche**, *LPSM*, Sorbonne Université, Paris (France)

2016–2019 **PhD scholarship**, *Ecole Doctorale Paris-Centre*, Sorbonne Université, Paris (France)

2015–En cours **Volunteer firefighter**, *Centre de Secours de Magny-en-Vexin*, Magny-en-Vexin (France)
Grade : sergent

2012–2013 **Equity Finance Middle-Office internship**, *Société Générale CIB*, La Défense (France)

Skills

Languages: French (native), English (fluent), German (read and written)

Computer skills: C++, LaTeX, Python, Excel/VBA, Matlab/Scilab, Maple