

Lucien Hennecart

CONTACT DETAILS

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EDUCATION

Université Paris-Saclay, Département de Mathématiques d'Orsay <i>PhD in Mathematics. Advisor: Olivier Schiffmann</i>	Orsay September 2018 – September 2021
Université Paris-Saclay, Département de Mathématiques d'Orsay <i>M.Sc. in Fundamental Mathematics, with high honors</i>	Orsay 2017 – 2018
Agrégation de Mathématiques <i>French diploma for higher education teaching</i>	July 2017
Université Rennes 1 and École Normale Supérieure de Rennes <i>First year of M.Sc. in Fundamental Mathematics, with high honors</i>	Rennes and Bruz 2015 – 2016
Université Rennes 1 and École Normale Supérieure de Rennes <i>B.Sc. in Physics</i>	Rennes and Bruz 2014 – 2016
Université Rennes 1 and École Normale Supérieure de Rennes <i>B.Sc. in Fundamental Mathematics, with high honors</i>	Rennes and Bruz 2014 – 2015
Recruited as a trainee civil servant at the École normale supérieure de Rennes <i>Competitive exam following the “Classes préparatoires”</i>	2014
Lycée Claude Fauriel <i>Classes préparatoires aux grandes écoles</i> <i>Two-year intensive program in preparation for the national “Grandes Écoles” competitive exams</i>	Saint-Étienne 2012 – 2014

PUBLICATIONS AND PREPRINTS

Perverse sheaves with nilpotent singular support on the stack of coherent sheaves on an elliptic curve, January 2021, preprint: [arXiv:2101.03813](https://arxiv.org/abs/2101.03813)

Microlocal characterization of Lusztig sheaves for affine and g -loops quivers, June 2020, preprint: [arXiv:2006.12780](https://arxiv.org/abs/2006.12780)

Asymptotic behaviour of Kac polynomials, March 2020, preprint: accepted by *Experimental Mathematics*
[arXiv:2003.06929](https://arxiv.org/abs/2003.06929)

Isotropic cuspidal functions in the Hall algebra of a quiver, *Int. Math. Res. Not. IMRN*, August 2019 (online version), [arXiv:1903.04378](https://arxiv.org/abs/1903.04378)

TALKS

Réga <i>Algèbres de Hall</i>	7 April 2021
PhD students Day, Laboratoire de Mathématiques d'Orsay <i>Caractérisation microlocale des faisceaux de Lusztig pour les carquois affines</i>	15 September 2020
Thematic trimester program on Representation theory, IHP, Seminar Young researchers <i>Microlocal characterization of Lusztig sheaves for extended Dynkin quivers</i>	19 February 2020
PhD student seminar, Laboratoire de Mathématiques d'Orsay <i>Polynômes de Kac d'un carquois</i>	22 January 2020
Séminaire quantique de Strasbourg <i>Les fonctions cuspidales sur le champ de représentations d'un carquois</i>	16 October 2019

UNDERGRADUATE RESEARCH EXPERIENCE

Laboratoire de Mathématiques d'Orsay

Subject: Structure of the Hall algebra of a quiver. Supervisor: Olivier Schiffmann

Orsay

February – August 2018

Institut Camille Jordan

Subject: Topology of real algebraic varieties. Supervisor: Jean-Yves Welschinger

Lyon

Mai – June 2016

Mathematisches Institut of Göttingen

Subject: Binary quadratic forms, the circle method and Waring's problem. Supervisor: Jörg Brüdern

Göttingen

June – July 2015

TEACHING EXPERIENCE

2020–2021

- First semester: Exercise class “Algebra” for first year students, 36 hours
- Exercise class “Introduction to Lie algebras” in the master program AAG (Analyse, Arithmétique, Géométrie) (5-th year students), 12 hours

2019–2020

- Mentoring of two Italian students laureate of an award of the FMJH (Fondation mathématique Jacques Hadamard) to attend the AAG (Analyse, Arithmétique, Géométrie) master program at Orsay
- First semester: Exercise class “Calculus” for first year students, 48 hours
- Second semester: Exercise class “Iterative methods in linear algebra” for third year students, 30 hours

2018–2019

- First semester: Exercise class “Calculus” for first year students, 16 hours
- Second semester: Exercise class “Linear algebra” for first year students, 48 hours

2017–2018

- Oral exams of mathematics, Lycée Blaise Pascal (Orsay). 2 hours per week, 50 hours altogether

LANGUAGES

French: Native speaker

English: Good skills. ToEIC: 815/990 (2016)

German: Level : C1 (Deutsches Sprachdiplom des Kultusministerkonferenz, 2012).

MISCELLANEOUS

I have played the Cello for 18 years. I played in many different orchestras for students over the years, participated to master-classes given by some of the famous French or Italian cellists (Emmanuelle Bertrand, Xavier Gagnepain, Jean Deplae, Xavier Phillips, Claudio Pasceri).