Léa Bittmann

2013 - 2015

 $\begin{array}{ll} \text{Hodge Institute,} & \text{Date of birth: } 26/12/1991 \\ \text{University of Edinburgh} & \text{Nationality:} & \text{French} & \text{and} \end{array}$

Email: lea.bittmann@ed.ac.uk Canadian

Education and Academic career

Education and Ac	ademic career
2021 -	University of Edinburgh, Edinburgh.
. — —	Researche Associate, working with Alexander Shapiro.
2019 - 2021	Universität Wien, Vienna.
2010 2021	Postdoctoral Researcher in the team of Anton Mellit.
2016 - 2019	Université Paris Diderot, Paris.
2010 2010	PhD in Mathematics, Advisor: David Hernandez.
July 2016	Agrégation de mathématiques, French diploma for higher educa-
July 2010	tion teaching.
2015 - 2016	Université Pierre et Marie Curie, Paris.
	M.Sc. of teaching in Mathematics, Summa cum Laude.
	Training for higher education teaching.
2014 2015	
2014 - 2015	Université Paris Diderot, Paris, France.
	M.Sc. in Fundamental Mathematics, Summa cum Laude.
2012-2014	ÉCOLE NORMALE SUPÉRIEURE (ENS), Paris.
	First year of M.Sc. in Fundamental Mathematics.
	B.Sc. in Mathematics, with high honors.
2009-2012	Lycée du Parc, Lyon, France.
	Completed a three-year scientific program in preparation for the na-
	tional "Grandes Écoles" competitive exam.
Publications	
December 2020	$A\ quantum\ cluster\ algebra\ approach\ to\ representations\ of\ simply-laced$
December 2020	quantum affine algebras, in Mathematische Zeitschrift.
$\rm July~2020$	Quantum Grothendieck rings as quantum cluster algebras, in Journal
	of the London Mathematical Society.
July 2019	·
	PhD Thesis: Quantum Grothendieck rings, cluster algebras and quantum offens extension.
A 4 2010	tum affine category O.
August 2018	Asymptotics of Standard Modules of Quantum Affine Algebras, in Al-
C + 1 001F	gebras and Representation Theory.
September 2015	Master Thesis: Representations of the Yangian in Deligne's category
	$Rep(Gl_t)$.
Teaching	
July 2020	ÉCOLE NORMALE SUPÉRIEURE ADMISSION EXAMINATION.
Jai, 2020	Examiner for the $Math\'{e}matiques D$ paper, Admission board.
2019-2020	Lycée Français de Vienne, Vienna, Austria.
	Occasional substitute teacher in senior and junior high school classes.
2017 - 2019	Université Paris Diderot, Paris, France.
	Teaching Assistant in Mathematics, for second year B.Sc. students
0010 0015	preparing for engineer schools.
2016 - 2017	Université Paris Diderot, Paris, France.
	Teaching Assistant in Mathematics, for first year B.Sc. students
	majoring in Computer Science.
0010 0015	Larante Carana Larana D. ' D

Lycée Saint Louis, Paris, France. Oral examiner in Mathematics.

Research visits

May 2018	UC RIVERSIDE, Riverside, USA.
March – July 2015	Visited Pr. Vyjayanthi Chari. MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Boston, USA. Research internship in Mathematics. Advisor: Pr. Pavel Etingof.

Some talks

Decembre 2020	QUANTUM GROUPS AND COHOMOLOGY THEORY OF QUIVER AND FLAG VARIETIES, CIRM, BBB.
	Monoidal categorification of cluster algebra and quantum affine Schur-
November 2020	Weyl duality. QUANTUM ALGEBRA DAYS, IMAG, Montpellier, Zoom. Anneaux de Grothendieck quantiques, vers les types non simplement
June 2020	lacés. ARTIN WORKSHOP, UNIVERSITY OF NOTTINGHAM, Microsoft Teams.
February 2020	t-deformations of Grothendieck rings as quantum cluster algebras. Colloque Tournant du GDR TLAG, IHP, Paris, France. Représentations des algèbres affines quantiques du point de vue des
January 2019	algèbres amassées quantiques. Séminaire Groupes, Représentations et Géométrie, Université Paris-Diderot, Paris, France.
December 2018	Anneaux de Grothendieck quantiques et algèbres amassées quantiques. XXV Brazilian Algebra School, Campinas, Brazil. t-deformations of Grothendieck rings as quantum cluster algebras.
June 2018	QUANTUM AFFINE ALGEBRAS, Washington DC, USA. t-deformations of Grothendieck rings as quantum cluster algebras.
May 2018	UC RIVERSIDE, Riverside, USA.
January 2017	Asymptotics of standard modules of quantum affine algebras. GEOMETRY AND REPRESENTATION THEORY, ESI, Vienna, Austria. Quantum Grothendieck Rings and Baxter relations.

Administration

- \cdot Reviewer for the following journals: Journal of the London Mathematical Society, Journal of Algebra, Algebra and Representation Theory and AMS Mathematical Reviews.
- · Member of the PhD Student Body at the Institut de Mathématiques de Jussieu-Paris Rive Gauche (IMJ-PRG).
- · Organizer of biannual meetings between graduate students and PhD students.
- \cdot Member of the Gender Equality Committee of the IMJ-PRG.