Léa BITTMANN

Oskar-Morgenstern-Platz 1Date of birth: 26/12/1991 Vienna 1090, Austria Nationality: French and Phone: (+33) 6 75 29 59 01

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Canadian

Education and Academic career

Education and Ac	ademic career
2019 –	Universität Wien, Vienna.
	Postdoctoral Researcher in the team of Anton Mellit.
2016 - 2019	Université Paris Diderot, Paris.
	PhD in Mathematics, Advisor: David Hernandez.
July 2016	Agrégation de mathématiques, French diploma for higher educa-
	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	Université Paris Diderot, Paris, France.
	M.Sc. in Fundamental Mathematics, Summa cum Laude.
${\bf 2012-2014}$	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	
T	
November 2019	A quantum cluster algebra approach to representations of simply-laced
T 1 0010	quantum affine algebras, preprint: arXiv:1911.13110.
July 2019	PhD Thesis: Quantum Grothendieck rings, cluster algebras and quantum offens sectors and quantum offens
Fabruary 2010	tum affine category \mathcal{O} .
February 2019	Quantum Grothendieck rings as quantum cluster algebras, in Journal
August 2019	of the London Mathematical Society.
August 2018	Asymptotics of Standard Modules of Quantum Affine Algebras, in Algebras and Paperson to tion. Theory
September 2015	gebras and Representation Theory. Master Thesis: Representations of the Yangian in Deligne's category
September 2015	Rep (Gl_t) .
	$nep(G_{t_t})$.
Talks - Posters	
November 2020	QUANTUM ALGEBRA DAYS, IMAG, Montpellier, Zoom.
	Anneaux de Grothendieck quantiques, vers les types non simplement
	$lac\'es$.
July 2020	Working group: Cluster algebras and quiver representa-
-	TIONS, IMJ-PRG, Paris, Zoom.
	Representations of quantum affine algebras, ℓ -fundamental and stan-
	dard modules.
$\mathbf{June} \ 2020$	ARTIN WORKSHOP, UNIVERSITY OF NOTTINGHAM, Zoom.
	t-deformations of Grothendieck rings as quantum cluster algebras.
February 2020	COLLOQUE TOURNANT DU GDR TLAG, IHP, Paris, France.
	Représentations des algèbres affines quantiques du point de vue des

algèbres amassées quantiques.

November 2019	SEMINAR "REPRESENTATION THEORY AND AUTOMORPHIC FORMS", UNIVERSITÄT WIEN, Vienna, Austria.
June 2019	R-matrices and quantum groups. Cluster Algebra 2019, Poster of the Day, Kyoto, Japan. Quantum Grothendieck rings as quantum cluster algebras.
March 2019	Number Theory Seminar, Universität Wien, Vienna, Austria. Representations of quantum affine algebras via cluster algebras.
February 2019	TENURE-TRACK TALK, UC RIVERSIDE, Riverside, USA. Baxter relation, cluster algebras and quantum cluster algebras.
January 2019	SÉMINAIRE GROUPES, REPRÉSENTATIONS ET GÉOMÉTRIE, UNIVER- SITÉ PARIS-DIDEROT, Paris, France. Anneaux de Grothendieck quantiques et algèbres amassées quantiques.
December 2018	XXV Brazilian Algebra School, Campinas, Brazil. t-deformations of Grothendieck rings as quantum cluster algebras.
November 2018	OBERSEMINAR ALGEBRA, UNIVERSITÄT ZU KÖLN, Cologne, Germany.
November 2018	t-deformations of Grothendieck rings as quantum cluster algebras. AACHEN UNIVERSITY, Aachen, Germany. Asymptotics of standard modules of quantum affine algebras.
November 2018	MATHEMATICAL PHYSICS SEMINAR, ETH, Zurich. Quantum Grothendieck rings for quantum affine algebras.
June 2018	QUANTUM AFFINE ALGEBRAS, Washington DC, USA. t-deformations of Grothendieck rings as quantum cluster algebras.
May 2018	UC RIVERSIDE, Riverside, USA. Asymptotics of standard modules of quantum affine algebras.
January 2017	GEOMETRY AND REPRESENTATION THEORY, ESI, Vienna, Austria. Quantum Grothendieck Rings and Baxter relations.
Research visits	
May 2018	UC RIVERSIDE, Riverside, USA. Visited Pr. Vyjayanthi Chari.
March – July 2015	MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Boston, USA. Research internship in Mathematics. Advisor: Pr. Pavel Etingof.
Teaching	
July 2020	ÉCOLE NORMALE SUPÉRIEURE ADMISSION EXAMINATION. Examiner for the <i>Mathématiques D</i> paper, Admission board.
2019 -	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 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.
2013 - 2015	Lycée Saint Louis, Paris, France. Oral examiner in Mathematics.
Administration	

Administration

[·] 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.

Languages

French: Native speaker.

English: Fluent.

Spanish: Good working knowledge.

Interests and Activities

 \cdot Sports: Basketball (University Championship), Scuba Diving (Open Water Diver), Cheerleading in ENS's squad, running.

· Computer skills : good knowledge of Caml, Maple and LateX.