

Thomas Lanard

CNRS Research Scientist

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POSITIONS

- 2022– **CNRS Research Scientist**, Laboratoire de mathématiques de Versailles, Université de Versailles Saint-Quentin, *Versailles, France*
- 2019–2022 **Postdoctoral Researcher in Mathematics**, University of Vienna, *Vienna, Austria*

EDUCATION

- 2015–2019 **PhD in Mathematics**, Advisor: Jean-François Dat, *Sorbonne Université, IMJ-PRG, Paris*
Topic: On the depth-zero ℓ -blocks of p -adic groups
Defended on 28 January 2019
- 2014–2015 **Master's degree (M2) in Mathematics**, École Normale Supérieure, *Lyon*
Topic: Introduction to the theory of zeta and L functions and their applications
- 2013–2014 **Agrégation in Mathematics**, École Normale Supérieure, *Lyon*
French national competitive examination — rank: 1st
- 2012–2013 **Master's degree (M1) in Mathematics**, ERASMUS, Imperial College London / École Normale Supérieure de Lyon
- 2011–2012 **Bachelor's degree (L3) in Mathematics**, École Normale Supérieure, *Lyon*

PUBLICATIONS

- 2026 **Depth zero representations over $\overline{\mathbb{Z}}[\frac{1}{p}]$** , with J.-F. Dat, *Algebra & Number Theory* 20 (2026), no. 7, 1451–1478
- 2024 **Modulo ℓ distinction problems**, with P. Cui and H. Lu, *Compositio Mathematica*, 160(10), 2285–2321
- 2023 **Unipotent ℓ -blocks for simply connected p -adic groups**, *Algebra & Number Theory* 17 (2023), no. 9, 1533–1572
- 2021 **Equivalence of categories between coefficient systems and systems of idempotents**, *Representation Theory* 25 (2021), 422–439
- 2021 **Sur les ℓ -blocs de niveau zéro des groupes p -adiques II**, *Ann. Sci. Éc. Norm. Supér.* (4) 54 (2021), no. 3, 683–750
- 2018 **Sur les ℓ -blocs de niveau zéro des groupes p -adiques**, *Compositio Mathematica* 154 (2018), no. 7

PREPRINTS

- 2025 **An algorithm for Aubert-Zelevinsky duality à la Mœglin-Waldspurger**, with A. Mínguez, arXiv:2509.13231

CONFERENCE TALKS

- Jan. 2026 Geometric representation theory and automorphic forms, *Sanya, China*
- Nov. 2025 Representation theory of p -adic groups, *Zagreb, Croatia*
- Nov. 2023 Journées immeubles et applications, *Poitiers, France*
- Sep. 2023 Representations of reductive p -adic groups, L-functions and relative matters : a conference in honor of Guy Henniart, *Amiens, France*
- Aug. 2023 Journées d'Etudes 2023 du GDR Théorie de Lie Algébrique et Géométrie, *Rennes, France*
- Jul. 2022 AMS-SMF-EMS Joint International Meeting, *Grenoble, France*
- May 2022 Paris-London Number Theory Seminar, *London, United Kingdom*
- Feb. 2019 Colloquium GDR TLAG, *Poitiers, France*

TEACHING

2021–2022	Linear Algebra, Bachelor, Exercise classes, <i>University of Vienna</i>
2019–2021	Algebraic Number Theory, Master, Exercise classes, <i>University of Vienna</i>
2020–2021	Linear Algebra and Geometry, Bachelor, Exercise classes, <i>University of Vienna</i>
2020–2021	Number Theory, Bachelor, Exercise classes, <i>University of Vienna</i>
2019–2020	Modular Forms, Master, Exercise classes, <i>University of Vienna</i>
2015–2019	Mathematics (continuing education), L3, Lectures + exercise classes, <i>Polytech' Paris</i>
2018–2019	Group Theory, L3, Exercise classes, <i>Sorbonne Université</i>
2018–2019	Arithmetic, L2, Exercise classes, <i>Sorbonne Université</i>
2015–2018	Fourier Analysis and Distributions, L3, Exercise classes, <i>Polytech' Paris</i>

SUPERVISION

2025–	Nans Bonnel , PhD (co-supervision with Jean-François Dat) Jordan decomposition of depth 0 ℓ -blocks of p -adic groups
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SOFTWARE

aubert-zelevinsky-duality, SageMath / Python package for computing the Aubert–Zelevinsky involution for classical groups, *Sage · Python*
The Langlands Programs, A website featuring computational tools dedicated to representation theory and the Langlands programme, *Web app*

SERVICE

2022–	Representation Theory Seminar , Weekly co-organisation, LMV Versailles
2024–	FMJH , Steering committee, Fondation Mathématique Jacques Hadamard
2025–	TFJM ² , Organisation of the regional round in Versailles of the Tournoi Français des Jeunes Mathématiciennes et Mathématiciens
2017–2018	Member of the PhD Students' Committee

LANGUAGES

French	native
English	fluent