

Thomas Lanard

Curriculum Vitae

University of Vienna
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Education

- 2019– **Post-Doc in Mathematics**, *University of Vienna*, Vienna, Austria.
- 2015–2019 **PhD in Mathematics**, *Advisor : Jean-François Dat*, Sorbonne Université, IMJ-PRG, Paris.
Subject: On the ℓ -blocks of p -adic groups
- 2014–2015 **Master of Mathematics (M2)**, *École Normale Supérieure*, Lyon, France.
Subject: Introduction to the theory of L and zeta functions and their applications
- 2013–2014 **Agrégation de Mathématiques**, *École Normale Supérieure*, Lyon, France.
Rank : 1
Agrégation: a national, highly competitive exam
- 2012–2013 **ERASMUS (M1)**, *Imperial College London (Host university)*, *École Normale Supérieure de Lyon (Home university)*.
- 2011–2012 **Bachelor of Mathematics**, *École Normale Supérieure*, Lyon, France.

Publications

- 2021 **Equivalence of categories between coefficient systems and systems of idempotents**, *Represent. 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

- 2022 **Modulo ℓ distinction problems for GL_2 and SL_2** , with Peiyi Cui and Hengfei Lu, arXiv:2203.14788
- 2022 **Depth zero representations over $\overline{\mathbb{Z}}[\frac{1}{p}]$** , with Jean-François Dat, arXiv:2202.03982
- 2020 **Unipotent ℓ -blocks for simply-connected p -adic groups**, arXiv:2011.01165

Talks

- July 2022 **AMS-SMF-EMS Joint International Meeting Special Sessions**, Grenoble, France
- June 2022 **Seminar of Number Theory of the ENS Lyon**, Lyon, France
- May 2022 **Paris-London Number Theory Seminar**, London, United Kingdom
- May 2022 **Seminar of the Laboratoire de Mathématiques de Versailles**, Versailles, France
- March 2022 **Seminar Representation Theory and Automorphic Forms**, Vienna, Austria
- October 2021 **Seminar Groupes, Algèbre et Géométrie**, Poitiers, France

- April 2021 **Seminar Géométrie complexe**, Online talk, Nancy, France
- January 2021 **Seminar Théorie des groupes**, Online talk, Amiens, France
- November 2020 **Seminar Géométrie Arithmétique et Motivique**, Online talk, Paris, France
- December 2019 **London Number Theory Seminar**, London, United Kingdom
- February 2019 **Colloquium GDR TLAG**, Poitiers, France
- February 2019 **Seminar of the University of East Anglia**, Norwich, United Kingdom
- February 2019 **Colloquium GDR TLAG**, Poitiers, France
- December 2018 **Seminar of the University of Vienna**, Vienna, Austria
- November 2018 **Seminar of the Laboratoire de Mathématiques de Versailles**, Versailles, France
- February 2018 **Seminar Groupes Réductifs et Formes Automorphes de l'IMJ-PRG**, Paris, France
- November 2017 **Seminar Groupes, Représentations et Géométrie**, Paris, France

Research Internships

- 2013 **Imperial College London**, with Kevin Buzzard (*The Modularity Theorem*).
- 2012 **École Polytechnique, Centre de Mathématiques Laurent Schwartz**, with Alain Plagne (*Waring's Problem*).

Teaching

- 2021–2022 **Linear Algebra**, *L1*, TD, University of Vienna.
- 2019–2021 **Algebraic Number Theory**, *Master*, University of Vienna.
- 2020–2021 **Linear Algebra and Geometry**, *L1*, University of Vienna.
- 2020–2021 **Number Theory**, *L1*, University of Vienna.
- 2019–2020 **Modular Forms**, *Master*, University of Vienna.
- 2015–2019 **Mathematics in continuing education**, *L3*, Autonomous, Polytech' Paris.
- 2018–2019 **Group theory**, *L3*, Sorbonne Université.
- 2018–2019 **Arithmetic**, *L2*, Sorbonne Université.
- 2015–2018 **Fourier analysis and Distributions**, *L3*, Polytech' Paris.

Other

- 2017–2018 **Member of the PhD student Bureau**.
PhD student Bureau: a small group of PhD students voluntary to take care of some administrative tasks and to help the other PhD students

Languages

- French Mother tongue

