

Antoine Derimay

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Université Paris-Saclay, Bâtiment 307, Bureau 2R21

Education

2024 - **Ph. D. under the supervision of Jean Lécureux**
2023 - 2024 **Projet long de recherche (PLR)**
2020 - 2024 **Diplôme de l'ENS de Lyon**
2022 - 2023 **Master 2 at ENS de Lyon**
Theme: p -adic geometry and representations

Internships

PLR 2 (2024) **Around the L^1 and commensurating full groups**
with François Le Maître
Institut mathématique de Jussieu-Paris Rive Gauche, Paris, France

PLR 1 (2023-2024) **Cocycle superrigidity for lattices in buildings**
with Camille Horbez and Jean Lécureux
Institut mathématique d'Orsay, Orsay, France

M2 (2023) **Margulis' superrigidity theorem, and linked results**
with Bertrand Rémy
ENS de Lyon, Lyon, France

M1 (2022) **Hyperbolicity and property (T) for triangle groups /
Drawing and animating aperiodic tilings of H^2**
with Stefan Witzel
Justus Liebig Universität, Giessen, Germany

L3 (2021) **Around the Liouville property for graphs**
with Baptiste Devyver
Université Grenoble-Alpes, Grenoble, France

Awards

- SMF junior competition (research initiation team competition for master students), laureate 2020 & 2022.

Publications

1. On the commensurating full group, Preprint [arXiv:2504.03535](https://arxiv.org/abs/2504.03535), 2025

Talks given

05/25 Montpellier, Workshop *Random walks on groups, groups acting on fractals - "Poisson boundaries of lattices and discretisation techniques"*
03/25 Université Paris-Saclay, Ph. D. seminar - "The Poisson boundary: between random walks, harmonic functions and ergodic theory"
01/25 Université Paris-Saclay, Groups and actions seminar - "The Poisson boundary of a building"

10/24 Université Paris Cité, Ergodic Theory work group - "Around the commensurating full group", mini-course

05/24 Université Paris Cité, Ph. D. seminar - "The Poisson boundary of a building"

04/24 Luminy, CIRM, *Around the Zimmer program* spring school - Lightning talk

Conferences attended

- April 2025: "YGGT 13", Copenhagen
- March 2025: "Rigidity of isometric actions", CIRM (Luminy)
- September 2024: "Buildings 2024", Münster
- July 2024: "Meeting around orbit equivalence", Besse-en-Chandesse
- April 2024: Spring school "Group actions and rigidity: around the Zimmer program", CIRM (Luminy)
- March 2024: "Rigidity in group theory: geometric and ergodic aspects", Orsay
- December 2023: "Colloquium to honor the memory of Jacques Tits", Paris
- October 2023: "Buildings 2023", Giessen
- August-September 2023: "Coarse geometry and dynamics", Lyon

Teaching

- Olympic math preparation of middle school and high school students, ~250h.
- Exercise classes at Université Paris-Saclay, 64h/year since September 2024.

Languages

French (native), English (fluent), German, Italian