Curriculum Vitæ

Thomas Normand

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1 - Work experience

PhD student in mathematics and teaching assistant 2020-
Team PDE and mathematical physics, IMB, Université de Bordeaux.
Member of the Research Groups « Analyse des EDP » and « Dynamique quantique » as well as the ANR project « Quantitative Analysis of Metastable Processes ».

Master 2 research internship February 2020- June 2020
Supervised by L. Michel at IMB, Université de Bordeaux.
Équations cinétiques et retour à l'équilibre.

Research internship Summer 2019
Supervised by K. Kellay and M. Tucsnak at IMB, Université de Bordeaux.
Reachable space for the heat equation with boundary control.

2 - Education

PhD in pure mathematics 2020-
Supervised by L. Michel at IMB, Université de Bordeaux.
Metastability of non local processes.
To be defended in 2023.

Université de Bordeaux 2014-2020
Bachelor's degree in Fundamental Mathematics (with highest honors) ; Master in Fundamental Mathematics/Preparation for the "Agrégation" (national teaching competitive exam, succeeded with rank 68th) ; Master 2 Analysis, P.D.E, Probabilitiy (with highest honors).

Baccalauréat Scientifique (end of high school degree) 2014
Lycée Fénelon Notre-Dame, La Rochelle.

3 - Research articles

- Metastability for the linear relaxation Boltzmann equation, work in progress.

- *Metastability results for a class of linear Boltzmann equations*, preprint (2022) arXiv : 2206.04492, submitted for publication.
- *Sharp reachability results for the heat equation in one space dimension* (with K. Kellay and M. Tucsnak), Analysis & PDE Vol. 15 (2022), No. 4, pp. 891–920.

4 - Teaching

Teaching assistant at Université de Bordeaux 2020-
Exercices sessions for the courses *Series, function sequences and improper integrals* (Bachelor degree), *Mathematics for life sciences* (Bachelor degree), *Mathematical tools* (Bachelor degree). Course *Mathematics* (Bachelor degree).

5 - List of talks

2023
- To be given, Analysis and PDE seminar of the LMJL, Université de Nantes.

2022
- IMB's PDE team working group « Scattering and stability ».
- MARGAUx PhD Days, may 16$^{\text{th}}$ - 18$^{\text{th}}$, Université de Bordeaux.

2021
- IMB's Analysis and PDE PhD students working group.
- Workshop « modèles et méthodes pour les équations cinétiques », october 20$^{\text{th}}$ - 22$^{\text{nd}}$, Université de Bordeaux.

2020
- IMB's PDE team working group « Scattering and stability ».
- IMB's Analysis and PDE PhD students working group.

6 - Conferences

Organisation
Member of the organizing comitee for the conference « ANR QuAMProcs meeting #5 », october 26$^{\text{th}}$ - 28$^{\text{th}}$, 2022, Université de Bordeaux.

Participation

· Spectral Theory, Control and Inverse Problems, november 21$^{\text{st}}$ - 25$^{\text{th}}$, 2022, CIRM.

· Conference in honor of the 80$^{\text{th}}$ birthday of Vesselin Petkov, november 14$^{\text{th}}$ - 15$^{\text{th}}$, 2022, Université de Bordeaux.

· Journées EDP 2022, may 30$^{\text{th}}$ - june 3$^{\text{rd}}$, 2022, Obernai.

· Analysis and control of PDE systems, in honor of Marius Tucsnak, november 29$^{\text{th}}$ - december 1$^{\text{st}}$, 2021, Université de Bordeaux.

· From kinetic equations to statistical mechanics, june 28$^{\text{th}}$ - july 2$^{\text{nd}}$, 2021, St-Jean-de-Monts.

· Multi-scale problems in mathematical physics, june 14$^{\text{th}}$ - 16$^{\text{th}}$, 2021, Université d'Angers.

· ANR QuAMProcs meetings #2, #3 et #4.

· Masterclass « Weyls' asymptotic law » by Nicolas Raymond, december 17$^{\text{th}}$ - 19$^{\text{th}}$, 2019, Université d'Angers.