Antoine Gagnebin, Ph.D.

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🖀 ETH Zürich, Department of Mathematics Rämistrasse 101, 8092 Zurich, Switzerland

Education

2020 - · · · ·	Ph.D. in Mathematics, ETH Zürich .
	Advisor: Prof. Mikaela Iacobelli
2018 – 2020	M.Sc. in Mathematics, University of Neuchâtel.
	Thesis title: The Vlasov-Poisson equation.
	Advisor: Prof. Mikaela Iacobelli
2015 – 2018	B.Sc. in Mathematics, University of Neuchâtel

Employment History

2020 - · · · ·	Teaching assistant, at ETH Zürich.
2018 – 2020	Teaching assistant, at University of Neuchâtel.
	Supply teacher at the high school of Neuchâtel.
2018	Internship at the national centre for nuclear research in Warsaw, Poland. Simulation of X-ray spectra emitted in tokamak plasmas.

Teaching

2020 – · · · ·	R	ETH Zürich <i>Topics in Non-Collisional Kinetic Theory</i> , Student seminar for M.Sc maths students. <i>An Introduction to Mean-Field Limits for Vlasov Equations</i> , Student seminar for M.Sc maths students. <i>Euclidean Harmonic Analysis</i> , Exercise sessions for M.Sc maths students. <i>Mathematical method in physics</i> , Exercise sessions in 2nd-year B.Sc. maths students. <i>Analysis III</i> , Exercise sessions in 2nd-year B.Sc. engineering students.
2018 – 2020		Teaching assistant , at University of Neuchâtel. <i>Physics</i> , Exercise sessions in 1st-year B.Sc. maths students.

 Talks

 May 2024
 Swiss Mathematical Society Doctoral Day 2024, University of Basel, Switzerland. Title: Asymptotic time behaviour of Vlasov-type equations.

 April 2024
 Minisymposium on PDE and Mathematical Physics, ETH Zürich, Switzerland. Title: Landau damping for Vlasov-type systems on the torus.

 January 2024
 Vlasovia 2024, Florence, Italy. Title: Landau damping in Plasma physics.

Talks (continued)

November 2023	Oberwolfach Graduate Seminar, Będlewo, Poland.
	Title: Landau damping for Vlasov-type systems.

September 2023 SwissMAP Annual General Meeting, Les Diablerets, Switzerland. Title: Landau damping for Vlasov-type systems.

Research Publications

Published papers

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A. Gagnebin and M. Iacobelli, Landau damping on the torus for the Vlasov-Poisson system with massless electrons, 2023. *9* DOI: 10.1016/j.jde.2023.08.020.