




Antoine Gagnebin, Ph.D.





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

Talks

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

- 1 A. Gagnebin, *Backward problem for the 1d ionic vlasov-poisson equation*, 2024.  DOI: 10.3934/krm.2023024.
- 2 A. Gagnebin and M. Iacobelli, *Landau damping on the torus for the Vlasov-Poisson system with massless electrons*, 2023.  DOI: 10.1016/j.jde.2023.08.020.