

Mathieu Dabrowski

Born on 21 September 1999
+33 (0)6 77 13 89 23
mathieu.dabrowski@ens-lyon.fr

EDUCATION

Since 2024 : Ph.D student at Laboratoire d'Annecy-le-Vieux de Physique Théorique, France

Title : Algebras and orthogonal polynomials in out of equilibrium systems.

Between 2021 and 2024 : Postgraduate at ENS Lyon, France

- 2023-2024 : Long Research Project
- 2022-2023 : M2 Physics & Chemistry : Physics, Concepts and Applications
- 2021-2022 : M1 Physics & Chemistry

Between 2018 and 2021 : Undergraduate at Université Grenoble Alpes, France

- 2020-2021 : L3 «Magistère de Physique»
- 2019-2020 : L2 Physics-Mechanics
- 2018-2019 : L1 Physics-Chemistry-Mechanics-Mathematics

Year 2017-2018 :

- Joint degree studies in Philosophy-Psychology, Nice Sophia Antipolis, France

Between 2014 and 2017 :

- High school : Jean-Monnet, Annemasse, France baccalauréat S with distinction

INTERNSHIPS

Second part of the Long Research Project (5 months) :

- Internship in mathematical physics supervised by Joris Van der Jeugt at Ghent university, Belgium. Title : *Lie algebras and symmetric polynomials in physical models*
- Further education : Course titled «Linear Algebraic Groups»

First part of the Long Research Project (5 months) :

- Internship in mathematical physics supervised by Sylvain CARROZZA and Luca LIONNI at the Institut de Mathématiques de Bourgogne, Dijon. Title : *Multipartite entanglement in Random Tensor Networks*
- Further education : Master Class titled «Algebraic Geometry & Physics»

End of M2 (3.5 months) :

Internship in cosmology supervised by Julien Laval at Montpellier Universe and Particles Laboratory. Title : *Uncovering the nature of dark matter and the properties of the primordial power spectrum on small scales with 21cm cosmology.*

End of M1 (3 months) :

Experimental internship in condensed matter supervised by Hélène BEA and Claire BARADUC at Spintec laboratory, CEA Grenoble. Title : *Study of the internal*

structure of skyrmions and domain walls in Ta/FeCoB/TaO_x.

End of L3 (2 months) :

Theoretical internship in condensed matter supervised by Manuel HOUZET and Julia MEYER at PHELIQS laboratory, CEA Grenoble. Subject : Superconductivity.

LANGUAGES

- French : Mother tongue
- English : *Certificate in Advanced English*, Level C1 grade B
- Spanish : Level A2

**COMPUTER
SKILLS**

- Programming language : Python

**EXTRA-
CURRICULAR
ACTIVITIES**

- Piano
- Chess