



# Théotime GIRARDOT

PhD Student in Mathematical Physics

02-17-1992

## Contact

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🚗 Driving License

## EDUCATION

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### LPMMC, Grenoble (38)

2019 > 2021

Third year of PhD in mathematical physics.

**Work in progress:** Semi-classical limit for almost fermionic anyons in a magnetic field.

**Article:** Average field approximation for almost bosonic anyons in a magnetic field in Journal of Mathematical Physics, 61 (2020).p.071901: [arXiv:1910.09310](https://arxiv.org/abs/1910.09310) [[math.AP](#)]

**Pre-print:** Semiclassical limit for almost fermionic anyons: [arXiv:2101.04457](https://arxiv.org/abs/2101.04457) [[math-ph](#)]

**Topics:** N-body physics, quantum mechanics, statistical physics, analysis methods.

### Université Grenoble Alpes (UGA), Grenoble (38)

2016 > 2018

Master Matière Quantique with honors.

Phase transition, second quantization, field theory, superconductivity, N-body physics.

General relativity, semi conductor, relativistic quantum mechanics, magnetism, atomic and nuclear physics.

2015 > 2016

Physics license.

Diploma of epistemology not achieved (yet).

### INP Pagora, Grenoble (38)

2013 > 2014

First year of engineering school.

**Topics:** chemistry of wood, fluid mechanics, management, high voltage electricity.

### Lycée Duhoda, Nîmes (30)

2010 > 2013

Scientific preparatory class PTSI.

### Lycée Jean-Baptiste Dumas, Alès (30)

2009 > 2010

Bachelor's degree, option SI (Engineering Science) and Maths.

# PROFESSIONAL BACKGROUND

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## LPMMC, Grenoble (38)

2018 > 2021 PhD with Nicolas Rougerie. Research about anyons in two limits: big number of particles and almost bosonic/fermionic behavior. Exchanges and discussions with others scientifics, seminars, talks, publication.

**Two summer schools:**

- ENS, Lyon (69) «Scaling limit in Kinetic theory» (2019)
- CIRM, Marseille (13) «From Quantum to Classical»

**Transversal courses:**

- Job Hunting, how to teach efficiently, zetetics and science communication.

## Université Grenoble Alpes (UGA), Grenoble (38)

2020 Teaching algebra and basic analysis to physics students.  
**Algebra:** bilinear algebra to second-year students, scalar product, projectors and minimization methods, Fourier series.  
**Analysis:** Main theorems about continuity and derivability, differential equations, Taylor's expansion for freshmen.  
**Analysis in RN:** continuity, differentiability, integrals for second year students.

2018 Research internship from March to July with Nicolas Rougerie.  
Familiarization with mathematical tools and little work about Landau levels.  
Immersion in the research activity, seminars and discussions.

## LyPhy, Grenoble (38)

2017 Experimental internship under the direction of Philippe Marmottant during three months.  
Implementation of an experimental setting, measures and data processing.  
I have learned to code in Python and to work in a cleanroom.  
**Topics:** bubbles resonance, fluid mechanics.

## Imprimerie Clément, Le Vigan (30)

July > August 2014 Engineering school internship.  
Six weeks to discover and to participate to the company operations. manufacturing, cleaning, delivery.

## France

Summers from 2008 until 2016 Recreation center entertainer.  
Have worked on stress, team work, organization, social abilities, responsibility of children.

## SKILLS

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English.

KaleidaGraph, LateX, Word, Excel, PowerPoint, C++, Visual Basic and Python.

N-body physics, quantum mechanics, statistical physics. Analysis.

Teaching.

## HOBBIES

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**Sport:** Tennis table, hiking, football

**Music:** guitar player