

# LOIRETTE–PELOUS Aurelian

*Curriculum Vitae*

## PERSONAL DETAILS

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*Mail* aurelian.loirettepelous@hotmail.fr

## EDUCATION

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**Master's degree in Physics: 2nd year** 2017-2018

*Master ICFP, Ecole Normale Supérieure de Paris, theoretical program*

Quantum field theory, Group theory, Statistical field theory, Numerical physics, Statistical physics, Topological order, Nonlinear and Quantum optics

**Master's degree in Physics: 1st year** 2016-2017

*Ecole Normale Supérieure Paris-Saclay and Université Pierre et Marie Curie (UPMC), Phytem program*

Solid-state physics, statistical-quantum physics, soft matter physics classes, quantum optics.

**Bachelor's degree in Physics** 2015-2016

*Ecole Normale Supérieure Paris-Saclay and Université Pierre et Marie Curie (UPMC), Phytem program*

Electromagnetism, quantum physics, statistical physics, special relativity, classical optics and maths classes

**Preparatory classes** 2012-2015

*Lycée Joffre, Montpellier*

Three-year undergraduate intensive course in mathematics and physics to prepare the national competitive examination for admission to the French "Grandes Ecoles".

Admitted at the Ecole Normale Supérieure de Cachan as a Normalien élève (funded student)

**Baccalauréat** 2012

*Lycée Champollion, Lattes*

Pathway: scientific; specialty: physics

## WORK EXPERIENCE

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**Career plan: PhD** 2019-2022

*Centre de Nanosciences et de Nanotechnologies*

PhD in polaritons physics under the direction of Jacqueline Bloch

**Career plan: internship** 2018-2019

*BEC Center, Trento University*

9-month internship in theoretical polariton physics under the direction of Iacopo Carusotto

**Internship** April-June 2018

*Centre de Nanosciences et de Nanotechnologies*

"Study of quantum fluids of polaritons in 1D lattices of coupled microcavities" under the direction of Jacqueline Bloch

**Internship** April-August 2017

*Physics department, Yale University*

”Building a simple setup of a Potassium Magneto-Optic Trap ” under the direction of Nir Navon

**Internship**

May-June  
2016

*Laboratoire de photonique quantique et moléculaire, Ecole Normale Supérieure Paris-Saclay*

”Squared microlasers” under the direction of Mélanie Lebental

**Report (TIPE)**

2015

*Université Montpellier 2*

”Study of the Pockels effect to achieve information transport”. I was helped for this work by Jean-Roch Huntzinger from the Montpellier university

**Teaching**

2013

*Private maths lessons to high school students*

**PUBLICATIONS**

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*Dynamical control of the emission of a square microlaser via symmetry classes,*  
S. Bittner, A. Loirette-Pelous, C. Lafargue, I. Gozhyk, C. Ulysse, B. Dietz, J. Zyss, and M. Lebental, submitted to Phys. Rev. A (2018)

**SKILLS**

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*Languages*      French (mother tongue)  
                         English (fluent, 185 at the C1 advanced before my journey to the US)  
*Software*        L<sup>A</sup>T<sub>E</sub>X, PYTHON