Gabriele Di Ubaldo

INFORMATION

Date of birth: 01/09/1997 *Nationality:* Italian
Website: https://philosophysics.github.io/site *E-mail:* gabriele.di.ubaldo@ens.fr

EDUCATION

École Normale Supérieure, PSL Paris, France, 2018 - Present

- Master in Theoretical Physics, second year (M2)
- ENS Diploma of graduate studies in Physics.

University of Pisa Pisa, Italy, 2015 - 2018

Laurea (BSc) in Physics with *110/110 Summa cum Laude*
Conformally Flat Solutions in Quantum Gravity. Supervisor: *Damiano Anselmi*

Liceo Scientifico E. Fermi Madrid, Spain 2011-2015

Maturità Scientifica , Italian Scientific High School Diploma with *100/100*
Bachillerato Cientîfico, Spanish Scientific High School Diploma with *10/10*

HONORS AND AWARDS

ICFP LABEX Excellence Scholarship for graduate study at ENS 2018-2020
Medal for academic achievement of the University of Pisa, 2018.
DAAD Scholarship for graduate study at LMU (declined), 2018-2020.
Merit Scholarship of the University of Pisa, undergraduate.

RESEARCH EXPERIENCE

ENS & APC, Universitè de Paris Paris, France, April 2020 - Current

Supervisors: *Elias Kiritsis* and *Francesco Nitti*
Aspects of Holographic RG Flows and Quantum Phase Transitions

DAMTP, Cambridge University Cambridge, UK, Jul 2019 - Sep 2019

Center for Theoretical Cosmology, group of *Paul Shellard*. Supervisor: *Cora Uhlemann.*
Statistics for Biased Tracers of Large Scale Structure.

Laboratoire de Physique Théorique, ENS Paris, France, Feb 2019 - June 2019

Particles, Gravitation and Strings group. Supervisor: *Giuseppe Policastro.*
Entanglement Entropy in Random Matrix Models of 2D String Theory.

ACADEMIC ACTIVITIES

Winter School on Supergravity, Strings and Gauge Theory - **CERN**, 2020
Workshop on *EFT in Cosmology, Gravity and Particle Physics* - **IPhT, Paris Saclay**, 2019
Workshop on $T\bar{T}$ *deformations* - **ENS, Paris**, 2019
Project: *From Inflation to Density Perturbations.* Supervisor: *Nick Kaiser* - **ENS, Paris**, 2019
Workshop on *Analytical Methods in Cosmology* - **Institut Henri Poincarè, Paris**, 2018
Talk: *Lie Algebras as the fundamental Structure of Nature.* Supervisor: *Kenichi Konishi* - **Pisa**, 2018
School - *Plas@Par* Plasma Physics summer school - **UPMC, École Polytechnique**, 2017
International Conference of Physics Students - **ICPS, University of Turin** 2017
School - *Balaton* Gravitational Waves summer school - **ELTE, Virgo, LIGO,** 2017
School - *Particle and Astroparticle Physics Autumn Program* - **LNGS, INFN, LNF,** 2016
Conference *90 years of Fermions* - **Accademia dei Lincei, INFN, Rome** 2016
Summer school - **Scuola Normale Superiore, Pisa** 2014
Summer school - **Scuola Superiore Sant'Anna, Pisa** 2014

Graduate Courses

M1 (First year of master)

- Introduction to Quantum Field Theory - A. Bilal
- Advanced Mathematics for Physicists - A.-K. Kashani Poor
- Introduction to General Relativity - N. Kaiser
- Statistical Physics - W. Krauth
- Computational Physics and Numerical Analysis - L. Tuckermann
- Topics in Strongly Coupled QFT (M2 level) - S. Rychkov

M2 (Second year of master)

- Quantum Field Theory - A.-K. Kashani Poor
- Lie Groups, Lie Algebras and Representations - D. Hernandez
- General Relativity - M. Petropoulos
- Advanced Statistical Physics - G. Biroli and G. Schehr
- Numerical Physics, Algortihms and Computations- A. Rosso
- Statistical Field Theory - D. Bernard and J. Jacobsen
- String Theory - D. Israel
- AdS/CFT - F. Nitti
- Conformal Field Theory - B. Estienne and Y. Ikhlef
- Quantum Field Theory II - S. Lavignac and B. Bellazzini
- Classical and Quantum Integrability - V. Kazakov
- Differential Geometry and Gauge Theory - O. Biquard

PhD level courses

- $T\bar{T}$ Deformations and Holography - M. Guica
- Symmetries and Anomalies - C. Cordova
- Matrix models and $c = 1$ String Theory - X. Yin