

Martinoia

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Experience

Postdoctoral researcher

Padova, Italy

July 2024 – to date

University of Padova, Laboratory of Interdisciplinary Physics (LIPH) • Supervisors: Samir Suwais, Amos Maritan, Sandro Azaele

Postdoctoral researcher

Genoa, Italy

University of Genoa, Physics department

February 2024 - to date

• Supervisor: Nicodemo Magnoli

Bruxelles, Belgium

Université Libre de Bruxelles

Visiting Researcher

Education

October 2022 – December 2022

• Visiting Ph.D. student, supervised by Riccardo Argurio

Ph.D. in Theoretical Physics

Genoa, Italy

University of Genoa, Physics department

October 2020 – to date

- · Advisor: Andrea Amoretti
- Postgraduate school (online): SFT 2021 Lectures on Statistical Field Theories, GGI Florence, Italy 8 to 19/02/21
- Workshop (online): Emergent Hydrodynamics in Condensed Matter and High-energy Physics, Max Planck Institute for the Physics of Complex Systems – Dresden, Germany – 2 to 6/05/22
- Workshop: Holographic perspectives on chiral transport, ECT* Trento, Italy 13 to 17/03/23
- Workshop: Hydrodynamics at all scales, NORDITA Stockholm, Sweden 16 to 23/09/23

Master's degree in Theoretical Physics

Genoa, Italy

University of Genoa, Physics department

2014 - 2020

- Grade: 110/110
- Thesis title: Anomalous hydrodynamic description of thermoelectric transport in a Weyl semimetal

Bachelor's degree in Physics

Genoa, Italy

University of Genoa, Physics department

2011 - 2014

• Grade: 110/110 cum laude

Publications - @ Google Scholar - @ INSPIRE __

The authors are listed alphabetically. Titles are DOI links.

Relaxation terms for anomalous hydrodynamic transport in Weyl semimetals from kinetic theory

JOURNAL OF HIGH ENERGY PHYSICS 02, 071 (2024)

September 2023

A. Amoretti, D.K. Brattan, L. Martinoia, I. Matthaiakakis, J. Rongen

Restoring time-reversal covariance in relaxed hydrodynamics

PHYSICAL REVIEW D 108, 5 (2023)

September 2023

A. Amoretti, D.K. Brattan, L. Martinoia, I. Matthaiakakis

Leading order magnetic field dependence of conductivities in anomalous hydrodynamics

PHYSICAL REVIEW D 108, 1 (2023)

July 2023

A. Amoretti, D.K. Brattan, L. Martinoia, I. Matthaiakakis Non-dissipative electrically driven fluids

JOURNAL OF HIGH ENERGY PHYSICS 05, 218 (2023)

May 2023

A. Amoretti, D.K. Brattan, L. Martinoia, I. Matthaiakakis

Destroying superconductivity in thin films with an electric field

PHYSICAL REVIEW RESEARCH 4, 3 (2022)

September 2022

A. Amoretti, D.K. Brattan, N. Magnoli, L. Martinoia, I. Matthaiakakis, P. Solinas

Hydrodynamic magneto-transport in holographic charge density wave states

JOURNAL OF HIGH ENERGY PHYSICS 11, 011 (2021) A. Amoretti, D. Areán, D.K. Brattan, L. Martinoia November 2021

Seminars and Posters

LUCA MARTINOIA CURRICULUM VITAE **Cortona Young 2021** Florence, Italy 9 – 11 June 2021

GALILEO GALILEI INSTITUTE

• Video-poster: Thermoelectric conductivities in Charge Density Waves states from hydrodynamics

Université Libre de Bruxelles, Physics department

• Talk title: A new class of hydrostatic theories

CMD30-FisMat2023 joint conference

University of Milan, Physics department

Department Retreat seminar

• Talk title: On Frames and Magneto-Transport in Anomalous Hydrodynamics

Bruxelles, Belgium

8 November 2022

Milan, Italy

2023 – to date

4-8 September 2023

Memberships_

Associate Researcher Genoa, Italy 2020 – to date

INSTITUTO NAZIONALE FISICA NUCLEARE

• Associate Researcher with the Italian Institute for Nuclear Physics (INFN), Statistical physics program

Associate Researcher Trento, Italy

EUROPEAN CENTER FOR THEORETICAL STUDIES IN NUCLEAR PHYSICS AND RELATED AREAS

• Associate Researcher with the European Center for Theoretical Studies in Nuclear Physics and Related Areas (ECT*)

Luca Martinoia CURRICULUM VITAE