Dr. Martina Meinero

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Driving license:	B

Education and Research

December 2020 – December 2021	**Postdoctoral research** contract (Research Grant Award) at Università di Genova. Project: "Sviluppo di nastri superconduttori a base di ferro per applicazioni ad alto campo magnetico"
December 2018 – December 2020	**Postdoctoral research** contract (Research Grant Award) at Università di Genova. Project: "Studio sperimentale del regime di "metalli strani" in superconduttori non convenzionali"
November 2015 – November 2018	**PhD in Physics** (Research Grant Award) at Università di Genova. Date: 26/03/2019. Title of thesis: "Transport properties at the boundaries of Fermi liquid: Iron-based and High-Tc superconductors ". Supervisor: Prof. Marina Putti
September 2013 – October 2015	**Master degree in Physics** at Università di Genova. Date: 29/10/2015. Thesis title: "Transport properties in parent compound BaFe2As2 of iron based superconductors ". Final grade: **110/110 cum laude**. Supervisor: Prof.ssa Marina Putti. Co-supervisor: Prof. N. Magnoli
September 2010 – September 2013	**Bachelor's Degree in Physics** at Università di Genova. Date: 25/09/2013. Thesis title: "Central forces". Final grade: **110/110 cum laude**. Supervisor: Prof. G. Cassinelli

Teaching Experience and tutoring

October 2020 – March 2022	**Tutor** of "General Physics 1" course, Nautical Engineering, Universal campus "G.Marconi" of La Spezia, Università di Genova.
March 2020 – March 2021	**Co-Supervisor of Master thesis** at Università di Genova. Thesis title: "Experimental study on high-Tc superconductors in the strange metal phase" candidate: Nadia Stegani. Date of discussion: 24/03/21.
May 2019 – March 2020	**Contract Professor** of General Physics course, DITEN, Università di Genova. Electromagnetism.
September 2018 – September 2019	**Tutor** of General Physics course, DITEN, Università di Genova. Classical Mechanics and Electromagnetism.
August 2017 – July 2018	**Tutor** of General Physics course, DITEN, Università di Genova. Classical Mechanics and Electromagnetism.
August 2016 – July 2017	**Tutor** of General Physics course, DITEN, Università di Genova. Classical Mechanics and Electromagnetism.
January 2017 – Febrauary 2017	**Tutor** of Stages PLS 2017 for High School students at University of Genova, Physics Department and CNR-SPIN Genova

Grants

DAAD Scholarship, Research Grant Award – Short-Term Grants, 2017. Position held: **Principal Investigator**. Grant amount: 4000 €. Title: "Investigation of the strange metal regime of unconventional superconductors: comparison with holographic theory". Duration: 4 months. Starting date: 1/10/2017. Place: IFW Dresden (**Germany**).

International experiences

Scientific experiment: "SdH oscillations in Seebeck effect of REFeAsO polycrystalline samples". Position held: **Principal investigator**. Date: 12-19/07/2015. Place: HFML (High Field Magnet Laboratory), Nijmegen (**The Netherlands**)

Scientific experiment: "High Field Thermoelectric Properties of BaFe2As2 single crystal ". Position held: **Co-Investigator**. Date: 12-19/07/2015. Place: HFML (High Field Magnet Laboratory), Nijmegen (**The Netherlands**)

Conferences, schools ans seminars

- Workshop on Iron-based Superconductors (IBS2app): 12/02/2020 – 14/02/2020, Santa Margherita Ligure, Genova, Italy

- SuperFOx2020 – International Conference on Superconductivity and Functional Oxides: 10/02/2020 – 12/02/2020, Santa Margherita Ligure, Genova, Italy (Oral contribution: M. Meinero et al. "Hydrodynamical charge density wave description for transport in the strange metal phase of cuprates")

- DPG Spring Meeting 2019: 31/03/2019 – 5/04/2019, Regensburg, Germany (Oral contribution: M. Meinero et al. "Unusual thermoelectric proeprties of BaFe2As2 in high magnetic fields")

- SuperFOx2018 – International Conference on Superconductivity and Functional Oxides: 13/09/2015 – 15/09/2018, Fisciano Campus, Salerno, Italy (Oral contribution: M. Meinero et al. "Unusual thermoelectric proeprties of BaFe2As2 in high magnetic fields")

- EASITrain/ESAS Summer School on Applied Superconductivity: 3/09/2018 – 7/09/2018, Wien (Austria)

- Invited seminar at the Institute of Low Temperature and Structure Research, Polish Academy of Science: 7/06/2018 Wroclaw, Poland. Presentation: "Unusual thermoelectric proeprties of BaFe2As2 in high magnetic fields"

- DPG Spring Meeting 2019: 11/03/2018 – 16/03/2018, Berlin, Germany (Poster contribution: M. Meinero et al. "Low temperature transport in 1111 IBS parent compounds")

- SuperFOx2016 – Third Conference on Superconductivity and Functional Oxides: 19/09/2016 – 21/09/2016, Politecnico di Torino, Turin, Italy (Oral contribution: M. Meinero et al. "Anisotropy of transport properties in parent compound BaFe2As2")

- WE Heraeus Seminar on "Superconducting materials on their way from Physics to Applications": 17/02/2016 – 20/02/2016 Bad Honnef, Germany (Poster contribution: M. Meinero et al. "Transport properties in parent compound BaFe2As2 of iron based superconductors")

Skills and competence

- Technical and experimental: vacuum techniques, cryogenic techniques, welding techniques, proficient user of the system Quantum Design PPMS (Physical Properties Measurement System) and the SQUID Quantum Design MPMS (Magnetic Property Measurement System)

- Computer skills: Windows, MacOS, Linux environments. Office, LateX, Comsol, OriginLab, MathCAD, Mathematica, C++ programming language

- Personal: Team-work skills, public speaking and science communication

Publications

P1. **M. Meinero**, P. Bonfà, I.J. Onuorah, S.Sanna, R. De Renzi, I.Eremin, M.A. Müller, J.-C. Orain, A. Martinelli, A. Provino, P. Manfrinetti, M.Putti, T. Shiroka, and G. Lamura, "Mn-induced Fermi-surface reconstruction in the SmFeAsO parent compound", Sci Rep 11**,** 14373 (2021)

P2. A. Amoretti, **M. Meinero**, D. K. Brattan, F. Caglieris, E. Giannini, M. Affronte, C. Hess, B. Buechner, N. Magnoli, M. Putti, "Hydrodynamical description for magneto-transport in the strange metal phase of Bi-2201", Phys. Rev. Research 2, 023387 (2020)

P3. **M. Meinero,** F. Caglieris, I. Pallecchi, G. Lamura, S. Ishida, H. Eisaki, A. Continenza and M. Putti, "In-plane and out-of-plane properties of a BaFe2As2 single crystal", J. Phys.: Condens. Matter 31 214003 (2019)

P4. **M. Meinero,** F. Caglieris, G. Lamura, I. Pallecchi, A. Jost, U. Zeitler, S. Ishida, H. Eisaki and M. Putti, "Unusual thermoelectric properties of BaFe2As2 in high magnetic fields", Phys. Rev. B 98, 155116 (2018)

Genova, 21/03/2021