Curriculum vitae et studiorum of Jacopo Fiore.

Official education:

- November 2021/Present: Ph.D. student at Sapienza University of Rome, Physics Department, thesis advisor Prof. Lara Benfatto, thesis topic "Non-linear optical response in unconventional superconductors";
- November 2019/Present: student at Sapienza School for Advanced Studies (SSAS), academic class of Science and Technology;
- September 2019 July 2022: student at Sapienza University of Rome, master's degree in Physics, curriculum "Condensed Matter Physics: Theory and Experiment", with final grade 110/110 cum laude, thesis title "Study of non-linear THz response in multiband superconductors", supervisor Prof. Lara Benfatto, average weight of the exam grades 29.84/30, number of laudes 4;
- September 2016 July 2019: student at University of Trieste, bachelor's degree in Physics, with final grade 110/110 cum laude, thesis title "Study of linear response functions in metals through the Gutzwiller variational approach", supervisors Profs. Michele Fabrizio (SISSA Trieste) and Fulvio Parmigiani (University of Trieste University of Cologne), average weight of the exam grades 28.64/30, number of laudes 4;
- September 2016 July 2019: student at Collegio Universitario "L. Fonda" of Trieste;
- June 2016: Diploma Esame di Stato at Liceo Scientifico "F. Masci" of Chieti, with final grade 100/100 cum laude.

Other relevant experiences:

- June 2022: summer school "Exosup2022: School on Exotic Superconductivity", chosen to give a students'talk about my poster "Contribution of Collective Excitations to Third Harmonic Generation in Superconducting MgB₂";
- May 2022: poster presentation in conference "From optical to THz control of materials Faraday Discussions" (online), poster title "Contribution of Collective Excitations to Third Harmonic Generation in Superconducting MgB₂";
- August 2020 October 2020: annual SSAS research project on "Role of electron-phonon interaction in graphene photoemission spectra: a many-body approach", supervisor Prof. Lara Benfatto (Sapienza University of Rome);
- September 2018 November 2018: curricular stage at Elettra Sincrotrone Trieste in the T-ReX (Time Resolved X-ray spectroscopy) Laboratory Group, supervisors Prof. Fulvio Parmigiani and Dr. Federico Cilento;
- September 2016: summer school in physics at University of Trieste;
- July 2016: summer school in modern physics at University of Udine;
- June 2015: summer school in classical physics at the Gran Sasso National Laboratory.

Publications:

- Jacopo Fiore, Mattia Udina, Marco Marciani, Goetz Seibold, Lara Benfatto, Contribution of collective excitations to third harmonic generation in multiband superconductors: the case of MgB₂, arXiv:2207.00483;
- Mattia Udina, Jacopo Fiore, Tommaso Cea, Claudio Castellani, Goetz Seibold, Lara Benfatto, THz non-linear optical response in cuprates: predominance of the BCS response over the Higgs mode, *Faraday Discussions*, 2022.

Language skills:

- Italian: mother tongue;
 English: CEFR level C1, achieved in July 2015 (IELTS certificate).

12/07/2022

F.to Jacopo Fiore