

William Cursio

Nationality: Italian **Date of birth:**

 **Phone number:**

 **Email address:**

 **Home:**



EDUCATION AND TRAINING

Master in Physics

Sapienza University of Rome [12/2022 - Current]

City: Rome

Country: Italy

Field(s) of study: Natural sciences, mathematics and statistics: *Physics*

I am currently attending the first year of Master in Physics. I am specializing in the study of condensed matter. The scheduled courses focus on fundament of Condensed Matter, Introduction to Quantum Field Theory and physics of Solids and Liquids.

Bachelor Degree in Physics

Sapienza University of Rome [09/2019 - 12/2022]

City: Rome

Country: Italy

Field(s) of study: Natural sciences, mathematics and statistics: *Physics*

Final grade: 110/110

Thesis: Limits of a single-particle mean-field theory in describing the H- ion and the success of a description of electronic correlation based on a two-parameter wave function.

In my thesis project i study the limitations of a single-particle mean-field theory in describing the H- ion. This correpond to its inability to fully account for electron correlation effects. In this system, electron-electron interactions play a significant role, and a single-particle description neglects these correlations. On the other hand, a description of electronic correlation based on a two-parameter wave function has shown success in capturing the electron-electron interactions and providing a more accurate representation of the H- ion.

In the project, I calculate the ionization energy value by developing a Python script.

Scientific High School Degree

"Liceo Scientifico Giuseppe Peano" [09/2014 - 06/2019]

Country: Italy

Final grade: 100/100 Cum laude

WORK EXPERIENCE

Physics Collaboration Fellowship

Sapienza University of Rome [01/2021 - 01/2022]

City: Rome

Country: Italy

Library assistant in the Physics Department Library of Sapienza.

- Library Collection Management: Acquisition, cataloging, and organization of materials in the library, including books, magazines, newspapers, DVDs, and digital resources.
- User Assistance: Providing assistance and guidance to users in researching and accessing library resources. Assisting users in locating specific materials, providing bibliographic information, and supporting information retrieval.

LANGUAGE SKILLS

Mother tongue(s): **Italian**

Other language(s):

English

LISTENING B2 READING C1 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Spanish

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Office / Microsoft Powerpoint / Microsoft Excel / Microsoft Word / Google Drive / Social Media /
Programming: Python, Matlab, Mathematica, LaTeX / Programming: C Programming

COMMUNICATION AND INTERPERSONAL SKILLS

General Skills

- Resilience in stress conditions
- Team-working
- Problem solving
- Ability to organize work in a limited amount of **time**

Ai fini della pubblicazione

Data 01/07/2023

F.to William Cursio