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## Interdisciplinary approach to Quantum Technologies: a teaching - learning experience for high school students

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Quantum Technologies will have fundamental social and economical implications in the next future. Therefore is urgent to make new generations aware of disruptive potential of these technologies so they can fell part of the second quantum revolution. Using an interdisciplinary approach, we designed and implemented a teaching learning sequence for high school students about the core concepts of quantum physics and the tenets of quantum computation. The intertwining between logic and physics enables students to understand the new way quantum computers manipulate information. In this paper, we present the design principles and the encouraging results of its implementation.

**Primary authors:** PALLOTTA, Filippo (University of Insubria); SATANASSI, Sara (Department of Physics and Astronomy, University of Bologna, Italy); SUTRINI, Claudio (Department of Physics, University of Pavia, Italy); Prof. ERCOLESSI, Elisa (Department of Physics and Astronomy, University of Bologna, Italy); Prof. BENENTI, Giuliano (Department of Science and High Technology, University of Insubria, Italy); Prof. PAROLA, Alberto (Department of Science and High Technology, University of Insubria, Italy); LEVRINI, Olivia (Department of Physics and Astronomy, University of Bologna, Italy); Prof. MACCHIAVELLO, Chiara (Department of Physics, University of Pavia, Italy); Dr BONDANI, Maria (Institute for Photonics and Nanotechnologies, CNR, Italy)

**Presenter:** PALLOTTA, Filippo (University of Insubria)

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