Contribution ID: **34** Type: **Lecture**

Quantum Computing (1/2)

Wednesday 8 March 2023 13:30 (1 hour)

This will be a general overview of quantum computing and what's special about it spanning two lectures (2 hours) and two practice sessions (2 hours). The mathematical and physics basis will be covered (not extensively). There will be a discussion of the prospects, with an emphasis on High Energy Physics. There will be a brush over the shortcomings of quantum computing and the common misrepresentation of facts about the status of the field. The practice sessions will involve using the Qiskit and Pennylane frameworks. The aim of this mini course is to inspire the students to learn more about the subject and cautiously hype them up to be interested in the CERN quantum technology initiative or getting involved with quantum technologies in general.

Attended school

Exercise hours

Lecture hours

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Track Classification: Computer science and engineering