GIREP-EPEC
Transforming physics learning via Research & Practice
LEIDEN, 2025

Contribution ID: **111** Type: **Oral presentation**

History as a Tool for Clarity: Enhancing Quantum Mechanics Understanding through Key Historical Insights

Tuesday 1 July 2025 09:20 (20 minutes)

Quantum Mechanics (QM) is often taught without sufficient attention to its historical context. This lack of historical perspective affects learners at all levels, from high-school teachers to young researchers. As Physics Education Research Group in Milan, we conducted a study with high-school teachers and prospective teachers to investigate whether and how a series of selected historical aspects can be useful for fostering a better understanding of the Nature of Science and the conceptual structure of QM. We will present the results of our research, which overall strongly support the inclusion of historical aspects in the teaching of QM.

Education level

Age over 18 (excluding teacher education)

Physics topic

Quantum mechanics

Research focus

Other

Research method

Other

Organizing preference criteria

Physics topic

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Session Classification: Parallel oral presentations

Track Classification: Quantum education (QUANT)