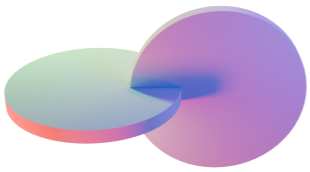

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Transforming physics learning via Research & Practice
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Factors that Support Classroom Implementation of Quantum Concepts in High School

Monday 30 June 2025 14:10 (20 minutes)

The Quantum for All project, funded by the US National Science Foundation, provided opportunities for students to learn about various aspects of quantum science by providing professional development for high school STEM educators to learn and practice quantum information science and engineering (QISE). This paper will share qualitative analysis from the feedback surveys highlighting the components of the professional development that were most useful to teachers and identify any common content threads as well as pedagogical approaches that seem to be most influential in supporting classroom implementation.

Education level

Pre-service and in-service teacher education

Physics topic

Quantum mechanics

Research focus

Innovative instructional strategies and pathways

Research method

Mixed method (qualitative & quantitative)

Organizing preference criteria

Research focus

Author: MATSLER, Karen (UT Arlington)

Co-author: Dr LOPEZ, Ramon (UT Arlington)

Presenter: MATSLER, Karen (UT Arlington)

Session Classification: Parallel oral presentations

Track Classification: Quantum education (QUANT)