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Transforming physics learning via Research & Practice
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Development of an online teacher training course for modern quantum physics teaching

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Modern quantum physics is finding its way into education and schools to train specialists for future technologies. Teachers must, therefore, be familiar with modern quantum physics. However, this content was often not a focus of the university training of prospective teachers. Consequently, there is a great need for further and advanced training courses for teachers. In this contribution, we present the concept and implementation of a practice-oriented teacher training course with online self-study units and a focus on content. The focus is on the essential features of quantum physics, single photon physics, Dirac formalism, and the quantum mechanical worldview.

Education level

Pre-service and in-service teacher education

Physics topic

Quantum mechanics

Research focus

Active learning

Research method

Other

Organizing preference criteria

Education level

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