



GIREP-EPEC
3-7 July 2023
Košice, Slovakia

GIREP-EPEC conference 2023
Physics learning promoting culture
and addressing societal issues

Contribution ID: 52

Type: **Oral presentation**

Experiences in Teaching/Learning Quantum Information Science

Thursday, July 6, 2023 2:20 PM (20 minutes)

There is an effort on introducing quantum computation into education. In the last years, these were mainly addressed in advanced master's degree courses for physicist and computer scientist, but the experiences in secondary schools are quite few. I am presenting here a pilot project regarding teaching/learning quantum mechanics via polarisation approach extended with the basics of quantum information science. This project uses only real numbers and avoids the formalism of matrices and the time development of state, not exceeding secondary school mathematics.

How would you like to present your contribution?

Live in Košice (time slot to be allotted based on the programme)

Target education level (primary)

Upper-secondary education

Target education level (secondary, optional)

Higher-secondary education

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Session Classification: Contemporary and modern physics

Track Classification: Contemporary physics and modern physics at school