



GIREP-EPEC
3-7 July 2023
Košice, Slovakia

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

Contribution ID: 22

Type: **Oral presentation**

The effectiveness of mathematical representations for the understanding of Quantum Mechanics

Thursday 6 July 2023 14:40 (20 minutes)

Multi-representations are fundamental to improve the conceptual learning of abstract topics (such as mathematical aspects), allowing students to actively manipulate concepts and instruments which would otherwise be difficult and little accessible. In this presentation we will show different (and interconnected) representations for the acquisition of the basic mathematical formalism of Quantum Mechanics, that can be used to provide a conceptual introduction and construction of quantum formalism in high schools.

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)

In-service teacher education

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Session Classification: Contemporary and modern physics

Track Classification: Contemporary physics and modern physics at school