



GIREP-EPEC

Transforming physics learning via Research & Practice
LEIDEN, 2025

Contribution ID: 196

Type: Poster

Physics Curriculum for Secondary Schools – Starting Points Grounded Among Leading Physicists and Other Stakeholders

Monday 30 June 2025 16:30 (1 hour)

This contribution is focused on the physics curriculum for upper secondary schools. We present the results of longitudinal research whose methodology is inspired by an objectivist grounded theory approach. Our research is based especially on the ideas of the leading Czech physicists obtained from in-depth interviews. The original group of physicists and other stakeholders (other natural scientists, physics teachers, and physics teacher educators) expressed their opinions on the ideas in the subsequent questionnaire. Factor analysis shows general agreement among stakeholders. The research will continue among other stakeholders (engineers, secondary school students, etc.).

Education level

Age 15-18 (Secondary education)

Physics topic

Full curriculum

Research focus

Other

Research method

Mixed method (qualitative & quantitative)

Organizing preference criteria

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Session Classification: Poster session

Track Classification: Instructional strategies & Curricula (INSTR)