



Contribution ID: 6

Type: **Oral presentation**

Algebraic graphs and equations versus kinematics graphs and equations –High School teachers' perceptions

Monday 3 July 2023 17:00 (20 minutes)

Algebra has a special and fundamental feature in the teaching of kinematics. The study was conducted with high school teachers teaching physical science from different types of schools and with different backgrounds. An open-ended questionnaire was distributed to them, and they voluntarily participated in the study. The study investigated their perceptions of their pedagogy of teaching kinematics and whether their learners are able to use their prior knowledge of algebra to solve kinematics graphs. The teachers were adamant that the majority of their learners are unable to use prior knowledge of and skills learned in algebra to solve kinematics problems.

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: Hybrid session - later

Track Classification: Innovative strategies and pathways to improve physics education at university