



Contribution ID: 17

Type: **Oral presentation**

Multimedia-supported electricity teaching via the application “Puma : Spannungslabor”

Monday 3 July 2023 14:20 (20 minutes)

Learning about Electricity suffers from the fundamental concepts being difficult to understand for students. The multimedia application “PUMA : Spannungslabor” was developed to support students by visualizing didactic analogies for electricity. The application uses Augmented Reality-technology to place a digital representation atop a real-world circuit. It is connected to the real-world circuit by camera and via Bluetooth, which enables the measurement and presentation of real-life data via the app. An additional mode was implemented, enabling the use of the application as a simulation. This contribution presents the application and gives examples on how it can support learning about electricity.

How would you like to present your contribution?

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

Target education level (primary)

Lower-secondary education

Target education level (secondary, optional)

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Session Classification: Innovative strategies at school

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