

Contribution ID: 267 Type: Workshop

Changing the role of experiments in learning physics - LAB

Friday 4 July 2025 13:00 (1h 30m)

In our active learning workshop, we will provide an example of a collaborative, student-centred approach for physics course using the Investigative Science Learning Environment (ISLE) approach. The topic studied will be torques and can be therefore adopted to high school levels and introductory physics courses at the university. Participants will engage in various hands-on activities, with special attention paid to lab work to illustrate how such a dynamic classroom can change the strategy for teaching physics. A discussion on the benefits and challenges of this innovative approach will help participants adopt the ISLE learning methodology in their own physics classrooms.

Education level

Age over 18 (excluding teacher education)

Physics topic

Full curriculum

Research focus

Competence-based education

Research method

Other

Organizing preference criteria

Authors: MAHNE, Nastja; ŠARLAH, Andreja; FALETIC, Sergej; MOHORIČ, Aleš; PLANINSIC, Gorazd

(Faculty of Mathematics and Physics, University of Ljubljana)

Presenters: MAHNE, Nastja; ŠARLAH, Andreja; FALETIC, Sergej; MOHORIČ, Aleš

Session Classification: Workshops

Track Classification: Instructional strategies & Curricula (INSTR)