



Contribution ID: 222

Type: **Oral presentations**

## Comparing prior knowledge of first-semester physics students between the cohorts of 2013 and 2023

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University instructors often recognize lacking prior knowledge in incoming first-semester physics students. In this study, we refined the 1978 national study entrance test (SET, [1]) to assess the physics dispositions of first-semester students and compared two cohorts of first-semester physics students: 2013 and 2023. Our findings reveal a small improvement in physics dispositions (i.e. prior knowledge) nationwide between the cohorts of 2013 (N=2251) and 2023 (N=2007). In 2023 students performed better on items focusing on physics literacy compared to more traditional items focusing on declarative knowledge of facts or standard calculation routines.

### How would you like to present your contribution?

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

### Target education level

University

### Category

Formal Education

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