



Contribution ID: 303

Type: **Oral presentations**

Understanding how students recognize and connect mathematics ideas in physics contexts: A pilot study

Friday, 30 August 2024 12:10 (20 minutes)

A long-standing problem within physics education is the difficulty of transferring ideas learned in a mathematics context into a physics context. To address this, first and second year mathematics courses at the University of Edinburgh are taught to physics majors by physics faculty rather than mathematics faculty. To evaluate this, we have devised a problem categorization task using 12 items relating to vectors from the Test of Calculus and Vectors in Mathematics and Physics to pilot the viability of this task. Six students were given this and interviewed. We discuss the viability of this task and reflect on future research.

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

Author: ROSEN, Drew (University of Edinburgh)

Co-authors: MEREDITH-LUTHI, Reuben (University of Edinburgh); GALLOWAY, Ross (University of Edinburgh)

Presenter: ROSEN, Drew (University of Edinburgh)

Session Classification: Oral presentations

Track Classification: Evaluation and Assessment of Student Learning and Development