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Physics learning promoting culture
and addressing societal issues

Contribution ID: 132

Type: **Oral presentation**

Students' experiences of applying vector quantities to rotational motion

Monday 3 July 2023 16:40 (20 minutes)

The development and trial of a laboratory exercise dealing with rotational motion using vector quantities such as angular momentum, torque, and moment of inertia have been evaluated through interviews with students. The lab consists of two parts, rolling cylinders down a slope, and exploring a rotating bicycle wheel. The second part allows the students to determine the wheel's moment of inertia in two ways. The results suggest that while the exercise works well as a learning opportunity for students who fluently use vector quantities, it needs to be revised for many students who cling to content learnt in high school.

How would you like to present your contribution?

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

Target education level (primary)

University education

Target education level (secondary, optional)

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Session Classification: Innovative strategies at University

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