



Contribution ID: 78

Type: **Oral presentations**

Teaching a Quantum Physics Class Using a Student-Centered Collaborative Learning Approach at the University Level

Friday 30 August 2024 11:30 (20 minutes)

We have redesigned a Quantum Physics class at the University of Amsterdam using a collaborative group-learning approach following the SCALE-UP methodology. In this active environment, students work together in groups on conceptual/numerical exercises that are monitored in class by the instructor and Teaching Assistants. Formal lecturing is reduced to a minimum, and students are expected to come to class prepared to work on the in-class assignments. Pre-class “Warmups” help students prepare and gauge their understanding; post-class homework assignments provide opportunities to practice the course material. We report on changes in student performance, motivation, and attitude which resulted from our innovation.

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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