



Contribution ID: 34

Type: **Poster**

## Factors of quality of physics demonstrations

*Wednesday 28 August 2024 11:30 (10 minutes)*

This paper describes a video study of physics demonstrations for upper-secondary school students from the perspective of parties relevant in physics education –physics teacher trainers, pre-service physics teachers, in-service physics teachers and upper-secondary students. The video-recordings of the performances are divided into numerous short sections, which are evaluated on prepared rating scales. Results show that the overall impression of short sections is mainly influenced by the atmosphere in the auditorium. Other relevant factors are the clarity of lecturer's speech and the clarity of experiments. These factors explain about 85% of the variance in the overall impression of these sections.

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

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

### Target education level

Secondary

### Category

Non-formal Education

**Authors:** NIKITIN, Alexandr (Department of Physics Education, Faculty of Mathematics and Physics, Charles University, Prague); Dr SNĚTINOVÁ, Marie (Department of Physics Education, Faculty of Mathematics and Physics, Charles University, Prague); Dr KÁCOVSKÝ, Petr (Department of Physics Education, Faculty of Mathematics and Physics, Charles University, Prague)

**Presenter:** NIKITIN, Alexandr (Department of Physics Education, Faculty of Mathematics and Physics, Charles University, Prague)

**Session Classification:** Poster session

**Track Classification:** Experiments and Practical Work in Physics Education