



Contribution ID: 200

Type: **Oral presentations**

## Physics Assessment in the age of AI

*Friday 30 August 2024 12:30 (20 minutes)*

This contribution explores the profound effects of generative AI, particularly ChatGPT models, on physics education. By melding performance analyses of GPT-3.5 and GPT-4 across diverse assessments - including 593 physics exam questions, 300 coding submissions, and 300 essay submissions - we unveil nuanced insights into AI's effect on assessment. Our findings reveal that AI rivals human performance in essay writing and approaches it in coding tasks, yet falls short in physics written exams. This comprehensive evaluation not only highlights AI's potential and limitations in academic contexts but also sets the stage for discussing its pedagogical implications and future integration.

### 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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**Session Classification:** Oral presentations

**Track Classification:** Multimedia, AR, VR and AI in Physics Education