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Type: **Poster**

## Implementation of modular smartphone experiments in physics lessons using the phyphox kit

*Monday 30 June 2025 16:30 (1 hour)*

The research approach aims to increase acceptance of smartphone experiments in physics lessons by distributing materials and offering teacher support for these experiments using the free phyphox app, which turns smartphones into mobile measuring instruments. The phyphox kit includes worksheets, accompanying materials and accessories for experiments across the core physics curriculum as well as materials for a 90-minute introductory lesson. Teachers from up to 30 schools will be included in a one-year study design, focusing on the use of the provided smartphone experiments and possible changes in teachers' attitudes towards them.

### Education level

Pre-service and in-service teacher education

### Physics topic

Full curriculum

### Research focus

Digital technologies (multimedia, simulations, AR, VR, remote, games)

### Research method

Mixed method (qualitative & quantitative)

### Organizing preference criteria

Track

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**Session Classification:** Poster session

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