



GIREP-EPEC

Transforming physics learning via Research & Practice
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Type: **Symposium**

Computational Modelling in the Physics Curriculum - MATH

Monday 30 June 2025 13:30 (1h 30m)

In 1984 Jon Ogborn [1] published an article about Dynamical Modelling. He demonstrated clearly the enormous potential added-values for physics education. So one would expect by now, 40 years later, in most countries the application of computational modelling is an integral part in the modern physics curriculum for high schools. Reality is amazingly different. By now, as far as known, only in The Netherlands computational modelling is addressed in the national curriculum of Physics and tested in national examinations.

The symposium aims to share and discuss the experiences with computational modelling for different levels of education and in several countries.

Education level

All ages

Physics topic

Full curriculum

Research focus

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

Research method

Other

Organizing preference criteria

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Session Classification: Symposium

Track Classification: Interplay of mathematics and physics (MATH)