GIREP-EPEC
Transforming physics learning via Research & Practice
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Inquiry-based learning of nuclear physics using VR learning module

Monday 30 June 2025 16:30 (1 hour)

Inquiry-based learning in physics education is an excellent method to reinforce what pupils learn at high school. Virtual reality learning modules help in cases where equipment for real-life demonstration experiments is unavailable to a teacher. One such topic is nuclear physics. We designed our VR learning module with inquiry-based learning in mind. Using this VR learning module pupils are guided to complete series of tasks. By doing so, they learn about absorption of nuclear radiation, about nature of the nuclear radiation carriers and about decay chains.

Education level

Age 15-18 (Secondary education)

Physics topic

Other

Research focus

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

Research method

Other

Organizing preference criteria

Research focus

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