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Teachers and Students educational activities based on cosmic muons in France

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Cosmic muons are a concrete way to introduce the physics of the “infinitely small” in high schools. In France, despite the adverse evolution of the school curriculum in science that has limited the room for this subject in teaching, some teachers and students have developed a wide range of educational activities that are presented during classes or in the context of scientific circles, both as concrete applications of mathematical concepts (statistics, uncertainties, etc.) and, examples to raise awareness about science.

Building around various tools provided by scientists (educational detectors, public datasets, documentation, patronage or mentoring, etc.), these teachers and students have imagined and implemented innovative projects, often in relation to their environment; designed new equipments and proposed related experiments adapted to classroom teaching; encouraged novel pedagogical interactions between researchers and students, etc.

Such creativity is remarkable, given the lack of resources and the limited time that teachers can dedicate to such long-term projects. The goal of this talk is to present a selection of these realizations, and to share the enthusiasm and dedication of these people who truly act as “multiplicative factors” between our science and the society as a whole.

Collaboration(s)

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