

Engaging the youth in programming and physics through an online educational activity

Thursday, 30 July 2020 08:40 (20 minutes)

The rapid economic growth is building new trends in careers. Almost every domain, including high-energy physics, needs people with strong capabilities in programming. In this evolving environment, it is highly desirable that young people are equipped with computational thinking (CT) skills, such as problem-solving and logical thinking, as well as the ability to develop software applications and write code. These are crucial elements of Science, Technology, Engineering, and Mathematics education (STEM).

The CMS Collaboration presents an outcome from a Proof of Concept of educational online activity. The project consists of building a first step of an interactive coding tutorial that will aim to introduce young people to computer science and particle physics principles in a fun and engaging way. This online educational asset equip educators with a new tool to introduce STEM education and digital literacy in the classrooms, to eventually inspire young people to acquire necessary skills to be ready for a digital economic growth and future jobs.

I read the instructions

Secondary track (number)

Primary author: TRACZYK, Piotr (Soltan Inst. for Nucl. Studies)

Presenter: TRACZYK, Piotr (Soltan Inst. for Nucl. Studies)

Session Classification: Education and Outreach

Track Classification: 15. Education and Outreach