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Physics learning promoting culture
and addressing societal issues

Contribution ID: 56

Type: **Oral presentation**

Effectiveness of MiniPIX detector activities dispelling high school students' misconceptions about radioactivity and ionising radiation

Tuesday 4 July 2023 10:40 (20 minutes)

Much research has shown that students' misconceptions of radioactivity and ionizing radiation are common and have a significant impact on their learning process and their ability to act as responsible citizens. The use of MiniPIX cameras, based on the Timepix hybrid pixel detectors read out designed at CERN, is bringing experimental particle physics and radioactivity into secondary education. An analysis of the effectiveness of the MiniPIX as a learning tool to dispel these misconceptions is presented.

How would you like to present your contribution?

Live in Košice (time slot to be allotted based on the programme)

Target education level (primary)

Upper-secondary education

Target education level (secondary, optional)

Lower-secondary education

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Session Classification: Innovative strategies at school

Track Classification: Innovative strategies and pathways to improve physics education at school