



Contribution ID: 11

Type: **Plenary talk**

Muography in the university and in the museum

Thursday, 25 November 2021 14:20 (20 minutes)

The LouMu team joins together specialists in particle detectors and in cosmic ray analyses, geophysicists and science communicators to muograph an underground gallery of an old mine, now open to visitors of a science museum. The muon telescope is made of Resistive Plate Chambers developed to operate stably and with low consumption at remote locations, and it has been tested in the Coimbra University, before being moved to the Science Center of Lousal, Portugal. In parallel to the scientific goals of surveying the geological faults around the gallery, comparing and combining the information from muography and other techniques, and testing and possibly upgrading these detectors for muography, the project aims to engage students at several levels and the interested public at large. The telescope was thought to operate in front of visitors, all the project phases will be documented, and the muographic data collected in the university building and the mine gallery will be made available for educational use. Providing an almost online update of simple and complex muographies is a challenge but provides an opportunity for a valued interaction of the public with our usually distant work.

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