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Modeling of the atmospheric profile at the height of Galeras volcano using GEANT4

The high energys group of the University of Nariño works in one of the most recent applications using atmospheric muons for the study of the internal structure of Galeras volcano through scintillation detectors. For this type of study, the characterization of the site where the detector will be installed is important.

In this poster, we intend to explain the estimation of the atmospheric profile as part of this characterization, using GDAS to obtain it and GEANT4 for its modeling.

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