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## Atmospheric showers simulation and preliminary background estimation

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The main source of background for the radiography of volcanoes with atmospheric muons comes from the accidental coincidences produced in the telescopes by the atmospheric showers. In order to quantify this background, the showers were investigated using two MonteCarlo packages, Corsika[1] and Geant4[2]. The talk will describe the simulation chain and give very preliminary results on the shower topology as well as on the background estimation.

[1] http://www-ik.fzk.de/corsika/

[2] http://geant4.cern.ch/

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