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Studying of SuperFGD response using stopped cosmic muons

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The SuperFGD (Super Fine-Grained Detector) is a part of the ND280 near detector complex for the T2K and Hyper-Kamiokande experiments. The SuperFGD is a fully active and highly granular scintillator neutrino detector. It consists of approximately 2 million scintillation cubes, which allow for the reconstruction of particles traveling in all directions. A good understanding of the SuperFGD response is crucial for detailed Monte Carlo simulations and systematics estimation for further physics analyses. This poster covers the selection of atmospheric muons stopped inside the sensitive volume of the detector, including their decays. Muons were selected by applying geometrical constraints and searching for subsequent electrons or positrons. The reconstructed spectrum of the Michel e^-/e^+ is useful as another source of energy scale determination. Reconstruction of Compton electrons following positron annihilation allows for the evaluation of the SuperFGD effective low energy threshold

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