

Simulation of the straw detector in the NA64 experiment for the muon run

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The NA64 experiment is a fixed-target experiment at the CERN SPS combining the active beam dump and missing energy techniques to search for rare events. The experiment looks for new particles such as dark photons, axion-like particles, new light X or Z' bosons by colliding 100-150 GeV energy electron or muon beams onto an active target.

The report presents the muon part of the experiment. The simulation of the experimental setup, in particular the straw detector is given. The results of real data reconstruction are compared to simulated data.

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