

Simulation of observed quantities in lepton flavour violation processes in proton-proton collisions

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This study investigates effects of lepton flavor violation (LFV) in proton-proton collisions at $\sqrt{s} = 13$ TeV with $e\mu$ and $\mu\tau$ final states. Using an effective Lagrangian which characterizes the 4-fermionic contact interaction, a Monte Carlo simulation of the process was performed. As a result, two-dimensional distributions by the invariant mass m_{inv} and azimuth angle φ were obtained and on their basis, achievable restrictions on the SM parameters were established.

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