

Lepton flavor violating Z decays at future e^+e^- colliders

Flavor violation is an established fact for the quark sector of the Standard Model (SM) as it is for the neutral sector of leptons. But in charged sector this phenomenon has not been observed yet. We shall study the lepton flavor violation (LFV) processes from Z boson decays (LFVZD), $Z \rightarrow l_i l_j$. For this we shall extend the SM with higher-dimensional gauge-invariant operators involving SM fields only and find how the corresponding Wilson coefficients effect the limit on LFV Z decays. We will also comment on the prospect of such Z decays at future e^+e^- colliders.

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