

Título: Flavor number violating processes in the 3-3-1 model.

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Abstract:

We study phenomenology of flavor number violating processes in the context of the 3-3-1 model with sterile neutrinos. We present the leptonic tree level decays $l_i \rightarrow l_j l_k l_k$, where $l_i = \mu, \tau$, $l_{j,k} = e, \mu$, and we found that $\mu \rightarrow eee$ impose a lower mass limit on the vector doubly charged bilepton of 4.58 TeV and that the scalar contributions are negligible in this kind of processes. We also test the matrices solution in $h^0 \rightarrow l_i l_j$ and in the one-loop decays $l_i \rightarrow l_j \gamma$, and found that in the loop processes the virtual interactions of the exotic particles with leptons provide signals much larger than in the standard model.