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Classification of 331 models

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The 331 models are of great interest from the theoretical and experimental point of view, since they allow explaining, among other things, the reason why there must be three families of fermions in nature and, on the other hand, they have experimental parameters that can be bounded in particle accelerators like the LHC. In general, these models are not universal and therefore have neutral currents with changes of flavor (flavor changing neutral currents FCNC) for the fermions of the model, to difference from universal models. This characteristic makes them relevant for the study of the phenomenology of the flavor physics. In particular we are interested in the classification of all 331 models for the parameter $\beta = 3/2$ and in the restrictions experimental on these.

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