



Contribution ID: 1

Type: **not specified**

## Alternative 3-3-1 models for $\beta = \sqrt{3}$

*Friday 12 May 2023 10:40 (30 minutes)*

We report the most general classification of 331 models with  $\beta = \sqrt{3}$ . We found several solutions where anomaly cancellation occurs between fermions of different families. These solutions are particularly interesting as they generate non-universal (NU) heavy neutral vector bosons. Non-universality in the SM fermion charges under an additional  $U(1)$  gauge group generates Charged Lepton Flavor Violation (CLFV) and Flavor Changing Neutral Currents (FCNC). Therefore, these models are suitable for studying flavor physics. In Addition, we also report LHC constraints.

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