

Aspects of $SO(10)$ unifications with extended matter sector

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In $SO(10)$ unifications with extended matter sector some of the drawbacks of the traditional models can be resolved. On one hand, it is easy to smear the down-quark - charged-lepton Yukawa degeneracy, yet without large Higgs representations. In the flipped variant, supersymmetric $SO(10)$ can be broken down to the SM at the renormalizable level even with multiplets not bigger than the adjoint.

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