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Unification without supersymmetry: where do we stand?

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It has been shown recently that the longstanding no-go excluding all the minimal nonsupersymmetric $SO(10)$ unified scenarios where the first stage of the symmetry breaking is triggered by the 45-dimensional adjoint representation is confuted by the implementation of the one-loop effective potential. This observation reopens the possibility of a realistic and predictive unified model building whose final goal is the precise computation of the proton decay branching ratios.

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