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New advances in the minimal potentially realistic $SO(10)$

We present new advances in the minimal $SO(10)$ Higgs model where the $45 \oplus 126$ scalars determine spontaneous symmetry breaking down to the Standard model. The comprehensive analysis of all theoretical aspects was performed extending previous results. Computational tools, including full one-loop mass corrections and one-loop scalar beta functions, were developed and allowed us to construct thorough viability constraints. Only two potentially realistic scenarios were identified where one of them seems to be preferred.

Collaboration / Activity

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