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New Results in Models with Reduced Couplings

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The renormalization group invariant, to all orders in perturbation theory, relations among parameters consist the basis of the reduction of couplings concept. $N=1$ supersymmetric Grand Unified Theories can use the above concept, and even become finite at all loops. In our work we analyse four phenomenologically favoured models: a minimal version of the $N=1$ $SU(5)$, a finite $N=1$ $SU(5)$, a $N=1$ finite $SU(3) \times SU(3) \times SU(3)$ model and a reduced version of the MSSM. A relevant update in the phenomenological evaluation has been the improved light Higgs-boson mass prediction as provided by the latest version of FeynHiggs. All four models predict relatively heavy supersymmetric spectra that start just below or above the TeV scale.

Is this abstract from experiment?

No

Internet talk

Yes

Name of experiment and experimental site

N/A

Is the speaker for that presentation defined?

Yes

Details

N/A

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