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Quantum Gravity and Grand Unification

Tuesday, 6 July 2021 10:25 (25 minutes)

In my talk I shall discuss how big is the parameter space of the couplings at the Planck scale leading to correct non-susy unification for the SO(10). To do so have calculated the renormalisation group equations for the model and run them down towards the IR and investigated the effective potential. As it turns out the initial parameters has to lie in the very small intervals and have a huge hierarchy between them. The string theory and asymptotic safety perspectives on this hierarchy will be discussed.

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