



Contribution ID: 21

Type: **not specified**

The spectrum of grand-unified theories

Friday 23 April 2021 10:20 (25 minutes)

It has been argued that the spectrum of observable particles in GUTs could be qualitatively different than the one expected in perturbation theory if manifest non-perturbative gauge invariance is required. After reviewing the underlying arguments lattice results in various channels in simplified GUT setups will be presented, which support these claims. This strongly suggest that criteria for selection of candidate GUTs need to be revised.

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