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Reshaping BSM model building & news from Graz

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Gauge invariance beyond perturbation theory has been found to substantially and qualitatively alter even basic spectroscopy. This has been confirmed in lattice simulations. The mechanism by Fröhlich, Morchio, and Strocchi allows an analytical description of these findings.

These features are introduced, and especially their implications for grand-unified theories/leptoquarks and supersymmetry are elucidated, where experimental searches need to be substantially altered.

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