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Higgsing on Symmetric Matter in F-theory

Thursday, 27 June 2024 17:00 (15 minutes)

Higgsing on symmetric matter in an SU(N) gauge theory breaks to a special SO(N) subgroup with exotic matter representations. We discuss the explicit realization of such Higgsings in F-theory models and analyze the resulting models via dualities with heterotic and type IIB. The SO(N) gauge factors are supported on Kodaira type I_N singularities with nontrivial Tate monodromy. These models have nontrivial global gauge group quotients with no apparent Mordell–Weil torsion or additional U(1) factors, and our results suggest that one can similarly obtain a locally supported U(1) gauge factor without additional Mordell–Weil sections.

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Session Classification: Parallel session