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How Grand Unification is realized in String Theory?

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The structure of the Standard Model strongly suggests that it is embedded into Grand Unification based on groups of E_n series. Compactification of string theory naturally realise such relation yielding the gauge group, matter spectrum and Yukawa interactions. We focus on $SU(3) \times SU(2) \times U(1)$ embedding of Standard Model in F-theory and learn features contrasted to field theoretic unification.

Author: CHOI, Kang Sin (Korea Institute for Advanced Study)

Presenter: CHOI, Kang Sin (Korea Institute for Advanced Study)

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