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The Potential Fate of Local Model Building

Sunday, August 28, 2011 3:30 PM (20 minutes)

In recent years there has been a lot of interest in F-Theory GUTs, mostly considering local models. In this talk I first consider an $SU(5)$ GUT locally at the “point of E_8 ”. The requirements of proton stability and reasonable flavour structure single out exactly two models. However, both models cannot be embedded in a semilocal construction (via the spectral cover approach). This casts doubts on the predictivity of local models.

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