

Asymptotic curvature, SCFTs and LSTs

Thursday, 27 June 2024 17:30 (15 minutes)

We present some recent progress about the study of the moduli space curvature along infinite distance limits. We consider the vector multiplet sector of type IIA string theory compactified on a Calabi-Yau three-fold, where such limits can be roughly classified as M-theory limits, F-theory limits or emergent string limits. We discuss the relation between divergences of the scalar curvature, that arise both at the classical level and including quantum corrections, and properties of gauge theory sectors that decouple from gravity. In particular, we focus our attention on the imprint of LSTs and SCFTs on the moduli space curvature.

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