

Emergent geometry in string theory

Thursday, 27 June 2024 14:30 (15 minutes)

Does string theory predict extra dimensions? It is common folklore that consistency dictates ten or eleven in total. However, the structures appearing in string theory generalize the classical notion of geometry to something more abstract, which may not always reduce to the familiar idea of compact extra dimensions. I will present some recent results to the effect that classical geometry does emerge toward the boundary of moduli space in perturbative string vacua.

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