

Boundaries and geodesics in moduli spaces

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

In the context of the Swampland program, the Distance Conjecture predicts an infinite tower of states becoming massless at infinite distance in moduli spaces of string compactifications. This is widely believed to be a general feature of quantum gravity, but it is difficult to prove in full generality. On the other hand, the moduli spaces of maximally and half-maximally supersymmetric theory are coset spaces of the globally symmetric type, which are mathematically fairly well understood. In this work, we provide a framework to study systematically the infinite distance limits in these simple cases, and use this knowledge to argue for the Distance Conjecture in this subset of theories.

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Session Classification: Parallel session