

Summing over geometries in string theory

Thursday, 11 March 2021 14:30 (1 hour)

I discuss the question how string theory achieves a sum over bulk geometries with fixed asymptotic boundary conditions. I analyze this problem with the help of the tensionless string on $AdS_3 \times S^3 \times T^4$ (with one unit of NS-NS flux) that was recently understood to be dual to the symmetric orbifold of T^4 . I argue that large stringy corrections around a fixed background can be interpreted as different semiclassical geometries, thus making a sum over semi-classical geometries superfluous.

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Session Classification: Strings web seminars