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Turbulent strings in AdS/CFT

Tuesday, 14 April 2015 14:20 (30 minutes)

I will talk about nonlinear dynamics of the flux tube between an external quark-antiquark pair in N=4 SYM using the dual string description in AdS/CFT. Perturbing the endpoints of the string and numerically computing its nonlinear time evolution, I will show that cusps can be formed on the string. I will discuss a connection between this phenomenon and turbulent behavior in the energy spectrum.

Presenter: ISHII, Takaaki

Session Classification: Parallel Session