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Quantum corrections to the dispersion relation in flux-deformed AdS_3/CFT_2

Friday 25 May 2018 15:40 (25 minutes)

In this talk I will present the computation of the one-loop correction to the classical dispersion relation of rigid closed spinning strings with two equal angular momenta in the $AdS_3 \times S^3 \times T^4$ background supported with a mixture of R-R and NS-NS three-form fluxes. This analysis is performed by means of two different methods. The first method relies on the quadratic fluctuations around the classical solution, while the second one exploits the underlying integrability of the problem through the algebraic curve. We find that the one-loop correction vanishes in the pure NS-NS limit

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