

Semiclassical strings exactly

We present a systematic analytic treatment of semiclassical fluctuations around non-trivial solutions for the Green Schwarz string action in $AdS_5 \times S^5$ space. The 1-loop partition function for the cases of the minimal surface corresponding to a Wilson loop with parallel lines and for the folded string are considered, leading in the first case to a prediction for the subleading correction to the quark-antiquark potential in AdS, in the second to a detailed information on the strong coupling behavior of the dual gauge twist operators.

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