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Planar and non-planar correlation functions in AdS/CFT

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I will describe how to employ hexagonal tessellations to compute correlation functions, including $1/N_c$ non-planar corrections, in $N=4$ SYM and in the dual $AdS_5 \times S^5$ superstring. I will highlight the outstanding challenges inherent in the hexagon formalism, focusing on the difficulties in accounting for all “wrapping” finite-size corrections. I will then introduce a novel integrable model, the $AdS_3 \times S^3 \times T^4$ superstring with no Ramond-Ramond flux; here the S-matrix is entirely given by a CDD factor and finite-size corrections to the spectrum vanish exactly, making this an extremely promising playground for the hexagon-tessellation program.

Summary

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