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Planar and non-planar correlation functions in AdS/CFT

Friday, 24 August 2018 11:45 (45 minutes)

I will describe how to employ hexagonal tessellations to compute correlation functions, including 1/Nc non-planar corrections, in N=4 SYM and in the dual AdS5xS5 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 AdS3xS3xT4 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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