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Conformal ladder graphs as thermal partition functions

Tuesday, 14 May 2024 11:00 (1 hour)

I describe a recently discovered correspondence between L -loop conformal ladder graphs in $D=2$ and $D=4$ fishnet CFTs, and thermal partition functions of massive free scalars in $d=2L+1$ dimensions. The correspondence reveals some previously unobserved algebraic and differential relations among the conformal graphs. It also provides a statistical field theory interpretation for the all-loop resummation of the ladder graphs. Other possible implications of the correspondence are also discussed.

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