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1/N corrections from quantum M2 branes

Tuesday 17 December 2024 09:30 (45 minutes)

We will review recent work on semiclassical quantization of 11d supermembrane in $AdS_3 \times S^7/Z_k$. In the case of M2 configuration dual to supersymmetric Wilson loop 1-loop M2 brane correction matches $1/N$ correction in exact localization result in the ABJM theory. Considering 1-loop corrections to semiclassical M2 brane states generalizing spinning strings in $AdS_4 \times S^4$ one can get predictions for the $1/N$ corrections to anomalous dimensions of the dual ABJM operators.

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