

Finite N corrections to the superconformal index of toric quiver gauge theories

Thursday, 5 December 2019 15:00 (3 hours)

We study the finite N AdS/CFT correspondence between the Type IIB string theories on $\text{AdS}_5 \times \text{SE}_5$ and quiver gauge theories, where SE_5 is a five-dimensional Sasaki-Einstein manifold. Our assumption is that D3-branes wrapping on the three-cycles in the internal space give the finite N corrections to the index. We calculate the index of wrapped D3-branes and get the non-trivial coincidence for leading finite N corrections in comparison with the localization results from the gauge theory.

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