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D3-brane analysis for the superconformal index in orbifold quiver gauge theories

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

We study the orbifold type of AdS5/CFT4 correspondence for finite N by using the superconformal index. Especially, we calculate the finite N corrections to the superconformal index from the dual gravity theory. Our method is based on the assumption that D3-branes wrapped around three-cycles in the internal space reproduce the finite N corrections. As a result we find this approach actually gives the known superconformal index (localization result) for leading corrections for orbifold quiver gauge theories.

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