

Finite-N superconformal index via the AdS/CFT correspondence

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We propose a prescription to calculate the superconformal index of the $N=4$ $U(N)$ supersymmetric Yang-Mills theory with finite N on the AdS side. The finite N corrections are included as contributions of D3-branes wrapped around three-cycles in S^5 , which are calculated as the index of the gauge theories realized on the wrapped branes.

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