

Holographic index calculation for Argyres-Douglas and Minahan-Nemeschansky theories

Thursday, 25 November 2021 16:45 (1h 15m)

We calculate the superconformal indices of the $N=2$ superconformal field theories realized on N coincident D3-branes in 7-brane backgrounds with constant axiodilaton via the AdS/CFT correspondence. We include the finite- N corrections as the contribution of D3-branes wrapped around 3-cycles in the internal space. We take only single-wrapping contributions into account for simplicity. We also determine the orders of the next-to-leading corrections which we do not calculate. The orders are relatively high, and we obtain many trustable terms. We give the results for $N=1,2,3$ explicitly, and find nice agreement with known results.

Reference: arXiv:2110.14897

Presenter: MURAYAMA, Shuichi (Tokyo Institute of Technology)

Session Classification: Poster Session