

# 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