

Dongmin Gang, October 21

Title : Large N subleading corrections in AdS4/CFT3 using 3d-3d correspondence

Abstract: 3d-3d correspondence studies 3d supersymmetric field theories obtained from M5-branes wrapped on 3-manifolds.

Using 3d-3d relations, various BPS partition functions of the 3d theories can be written in terms of invariants of complex Chern-Simons theories on the internal 3-manifolds. I will explain how the 3d-3d relations (combined with known mathematical results) help us to compute the large N behavior (including some subleading corrections) of the BPS partition functions. I will also discuss their holographic dual computations with emphasis on unsolved remaining issues.