ID de Contribution: **53** Type: **Non spécifié**

Large N Partition Functions, Holography, and Black Holes

mardi 4 juillet 2023 14:00 (1 heure)

I will discuss the large N behavior of partition functions of the ABJM theory on compact Euclidean manifolds. I will pay particular attention to the S^3 free energy and the topologically twisted index for which I will present closed form expressions valid to all orders in the large N expansion. These results have important implications for holography and the microscopic entropy counting of AdS_4 black holes which I will discuss. I will also briefly discuss generalizations of these results to the superconformal index, as well as to other 3d SCFTs arising from M2-branes.

Orateur: BOBEV, Nikolay

Classification de Session: Formal theory