## Black Holes in the Berkooz-Douglas Matrix Model

Tuesday 17 December 2024 11:45 (45 minutes)

I will review the holographic duality enjoyed by the strongly-coupled limit of U(K) BFSS with N fundamental hypermultiplets, and compare it to that of plain BFSS and BMN. I will describe the construction of a broad class of black hole solutions, whose description in supergravity can be trusted at large K and N. By studying an index of the matrix model, I will recover precisely the Bekenstein-Hawking entropy of BPS black holes, as a degeneracy of BPS states in the matrix model.

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