

Chern-Simons Invariants from Ensemble Averages

Thursday, 3 June 2021 12:00 (1h 15m)

I will discuss the holographic duality between a free boson CFT associated with an integral lattice and Chern-Simons theory. The boundary CFT has a moduli space, and averaging over the moduli space reproduces the partition function of Chern-Simons theory in the bulk, as a result of a theorem derived by Siegel. For odd lattices the bulk theory is given by a spin Chern-Simons theory.

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