

Comments on Large Charge and Holography

Friday, 3 September 2021 15:30 (1 hour)

I will discuss three topics on the large charge limit and holography. First, I will discuss general features of the large-charge limit of superconformal field theories at large N . In particular, I will point out a simple setup to analyze the large charge expansion of the planar $N=4$ super Yang-Mills and discuss its holographic interpretation. Second, I will point out the hidden symmetry of the double-scaling limit of $N=4$ super Yang-Mills at large charge. Third I will discuss the large-charge limit of the defect CFT on the Wilson line and its relation to the matrix model.

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