

On UV-finiteness of supersymmetric gradient flow in $N=1$ SQCD

Thursday, 5 December 2019 15:00 (3 hours)

I will discuss perturbation theory of supersymmetric gradient flow in 4D $N = 1$ SQCD. The perturbation theory consists of a perturbative expansion of 4D SQCD and an iterative expansion of the flow equation. In order to prove UV-finiteness of flow theory, it is necessary to calculate its correlation functions and to construct a $d+1$ -dimensional theory which reproduces the same perturbation series.

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