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Perturbative running of the twisted Yang-Mills coupling in the gradient flow scheme

Tuesday, July 26, 2016 8:00 PM (1 hour)

We present our ongoing computation of the running of the twisted Yang-Mills coupling using gradient flow techniques. In particular, we use the gradient flow equation with twisted boundary conditions to perform a perturbative expansion of the expectation value of the Yang-Mills energy density up to fourth order at finite flow time, and regularise the respective resulting sums and integrals. Additionally, we show our ongoing computation of the aforementioned integrals in the particular case of a two-dimensional twist.

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