Contribution ID: **16**   Type: **not specified**

beta function, Lambda parameter and more

Friday 21 June 2024 11:30 (20 minutes)

Exploiting the relation between real-space Wilsonian renormalization group transformations and gradient flow, we show how to determine the β function and obtain the QCD Λ parameter. Moreover, we use this framework to develop a novel nonperturbative renormalization scheme for local operators. We demonstrate our method using nonperturbative results based on simulations with $N_f = 2$ stout-smeared Möbius domain-wall fermions and Symanzik gauge action.

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Session Classification: Day 4