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Applications of Gradient flow to Non-perturbative renormalization of quark bi-linears

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Results of a non-perturbative determination of RI-MOM renormalization constants for smeared quark bi-linear operators are presented. These operators are smeared using the gradient flow, enabling the smearing scale to be fixed in physical units. As a result, smeared matrix elements are free of power divergences in the lattice spacing, which allows easier control of the continuum limit of these matrix elements. Potential applications to calculations of twist-2 matrix elements are discussed.

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