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Comparison of the MOM and SMOM renormalization

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The momentum subtraction scheme (MOM) and symmetric momentum subtraction scheme (SMOM) are two of the widely used intermedium schemes for the non-perturbative renormalization of the lattice bare vertices. In principle both the schemes should provide the same MS-bar results with their respective matching, while kinds of the systematic uncertainties can create certain tensions especially at finite lattice spacing. We will show our calculation with the overlap fermion at several quark masses and lattice spacings, to compare the advantage and disadvantage of both the schemes.

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