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Analysis of short distance current correlators using OPE

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We investigate correlation functions of light quark flavor non-singlet bilinear operators at short distances, where non-perturbative effects are encoded in the form of Operator Product Expansion (OPE). Comparing lattice results and continuum perturbation theory, we determine renormalization constants and vacuum expectation values appearing in OPE. We use the lattice data obtained with the Mobius domain-wall fermion at three lattice spacings.

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