LATTICE 21

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Hadronic vacuum polarization from step scaling in the Schwinger model

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We compute the quark-connected component of the hadronic vacuum polarization function at the energy scale of the Z boson mass in the Schwinger model. This is done by computing different representations of the Adler function on different energy scales. The mass parameters for the different scales are set with a step scaling scheme in which the lattice spacing and volume are adjusted to the given momentum. At each step the lattice spacing and volume are halved. We perform the continuum limit and investigate the finite volume behavior.

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