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Non-perturbative Renormalization with RI-MOM scheme for Bilinear Operators on the Fine Lattice

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We present the preliminary results of the wave function renormalization factor Z_q and mass renormalization factor Z_m from the bilinear operators obtained using non-perturbative renormalization method(NPR) in the RI-MOM scheme with improved staggered fermions.
We use fine ensembles of MILC asqtad lattices (N_f=2+1) with 28^3 \times 96 geometry and am_\ell / am_s = 0.0062 / 0.031.
We also present the dependence of lattice spacing for Z_q and Z_m by comparing the results of coarse and fine lattices.

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