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Perturbative calculation of Z_q and Z_m at the one-loop level using improved staggered quarks

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We present results of matching factors for Z_q and Z_m calculated perturbatively at the one loop level with improved staggered quarks. We calculate Z_q and Z_m with HYP-smearred staggered quarks. Final results of Z_q and Z_m at $\mu = 2$ GeV and 3 GeV in the $\overline{\text{MS}}$ scheme are given in tables.

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