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Electromagnetic corrections to leptonic pion decay from lattice QCD using infinite-volume reconstruction method

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We present a lattice procedure to calculate the leptonic pion decay width with only exponentially-suppressed finite-volume errors using the infinite-volume reconstruction method. Three technical points: 1) the inclusion of pion wave function renormalization factor, 2) the cancellation of infared divergence and 3) the connection between Euclidean-space correlation function and the relevant matrix element in Minkowski space will be discussed.

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