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Progress in the calculation of ϵ' on the lattice

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We discuss recent progress by the RBC & UKQCD collaborations in the lattice calculation of the measure of Standard Model direct CP violation, ϵ' , with physical kinematics. We present results with improved systematic errors resulting from the use of step-scaling to reduce the renormalization error, an analysis that also takes into account the one-loop-suppressed mixing with the G_1 two-quark operator. We also review our progress in decreasing the dominant statistical error on our result.

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