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Determination of ε_K using lattice QCD inputs

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We present the Standard Model evaluation of the indirect CP violation parameter

$\text{Im}(\lambda_K)$ determined using lattice QCD

inputs: \hat{B}_K , ξ_0 , V_{us} , and V_{cb} .

We find that the Standard Model prediction of ε_K with exclusive V_{cb} (lattice QCD results) is lower than the experimental value by 3.6σ .

However, this tension disappears with inclusive V_{cb} (results of heavy quark expansion).

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