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Current status of ϵ_K in lattice QCD (15' + 5')

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We present most updated results of the indirect CP violation parameter ϵ_K calculated using lattice QCD inputs such as B_K , ξ_0 , V_{cb} , V_{us} . We find 3.4 sigma tension between the theoretical prediction and the experimental value. An interpretation of the difference is given and future work will be laid out.

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