

Status of the CKM matrix as of Summer 2009 and sensitivity to New Physics

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We summarise the current status of the Cabbibo-Kobayaski-Maskawa matrix describing mixing and CP violation in the quark sector. We review the main ingredients of the global CKM analysis, with an emphasis on recent results and their impact. We assess the compatibility between various sources of information. We discuss the role of theoretical and experimental uncertainties.

We use current data to analyse scenarios of potential deviations from the flavour sector in the Standard Model, by setting constraints on additional effective parameters accounting for possible New Physics effects.

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