

Quark mass matrices in the physical basis

Friday, 13 November 2009 19:40 (0:30)

Abstract content

Summary

Using the four best measured moduli of the flavor mixing matrix ($|V_{ud}|$, $|V_{us}|$, $|V_{cd}|$, $|V_{cs}|$), the Jarlskog invariant $J(V)$, and the quark masses at M_Z and 2^{-} GeV energy scales as experimental constraints, a statistical comparison of different textures of the quark mass matrices in the physical basis is performed. The recently proposed mass matrices of the CGS type give a better fit than the Fritzsch and Gupta-Rajpoot types.

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Session Classification : Hadron and LHC Physics III