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Quark mass matrices in the physical basis

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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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