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The flavour permutational symmetry $S(3)$

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Abstract content

In this talk, I will review some results on masses, mixings and flavour changing neutral currents (FCNC's) of leptons and quarks previously derived in the framework of a minimal $S(3)$ -invariant extension of the Standard Model. Explicit, analytical expressions for the Yukawa matrices of leptons and quarks reparametrized in terms of the corresponding physical masses will be given. I will also give the results of a computation of the branching ratios of some selected flavour changing neutral current (FCNC) processes, as well as the contributions of the exchange of neutral flavour-changing scalars to the anomaly of the magnetic moment of the muon, as functions of the masses of the fermions and the neutral Higgs bosons.

Summary

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