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Revisiting Froggatt-Nielsen Mechanism

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The Froggatt-Nielsen Mechanism is a powerful way to explain the hierarchical structure found in the masses and mixing angles of quarks and leptons.
In this mechanism, the above structure is realized by imposing different U(1) charges on each generation of fermions under a new U(1) flavor symmetry.
In this talk, I will present the results of a reconsideration of the phenomenologically valid choice of U(1) charges by a Bayesian statistical approach.
I will also talk about the effect of flavor symmetry on proton decay.

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