



Contribution ID: 132

Type: **Parallel talks**

Revisiting Froggatt-Nielsen Mechanism

Friday 21 July 2023 14:40 (20 minutes)

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.

Primary author: WATANABE, Keiichi

Co-authors: Mr IBE, Masahiro (ICRR, U Tokyo); SHIRAI, Satoshi (Kavli IPMU); Mr YANAGIDA, Tsutomu (TDLI)

Presenter: WATANABE, Keiichi

Session Classification: Flavour physics: Theory and Experiment

Track Classification: Flavour physics: Theory and Experiment