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Predictions of m_ee and neutrino mass from a consistent Froggatt-Nielsen model

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The seesaw mechanism is the most attractive mechanism to explain the small neutrino masses, which predicts the neutrinoless double beta decay (0νββ) of the nucleus. Thus the discovery of 0νββ is extremely important for future particle physics. However, the present data on the neutrino oscillation is not sufficient to predict the value of m_{ee} as well as the neutrino mass m^i. In this talk, by adopting a simple and consistent Froggatt-Nielsen model, which can well explain the observed masses and mixing angles of quark and lepton sectors, we calculate the distribution of m_{ee} and m^i. Interestingly, a relatively large part of the preferred parameter space can be detected in the near future.

Paper info

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