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Modular symmetries and the flavor problem

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The "flavor problem" represents one of the greatest challenges of particle model building since SM does not provide neither "a priori" explanation of the number of fermion generations nor on their mass and mixing patters, which appear to be very different in the lepton and quark sector. Discrete non-abelian symmetries have gathered a lot of attention as candidates for the solutions of the latter problems. In this talk, I will revise the latest results achieved by Modular Symmetries in the description of fermion masses and mixings, showing that this recently proposed framework is particularly suitable for a unified description of leptons and quarks.

In-person participation

Yes

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