



Contribution ID: 187

Type: **Plenary talks (by invitation only)**

Modular flavor symmetry to the flavor structure of SM

Monday, 17 July 2023 09:40 (30 minutes)

It is known that there is huge hierarchy among the masses of quarks and leptons, and the lepton mixing is drastically different from quark mixing. The origin of fermion masses and flavor mixing is a longstanding puzzle of SM. Modular symmetry is a promising approach to address the flavor puzzle. This approach can overcome the drawbacks of traditional flavor symmetry, and it allows to explain the observed fermion masses and mixing parameters with a small number of free parameters. In this talk, I shall present some developments of the modular flavor symmetry, the possible connection to the top-down approach will be mentioned.

Primary authors: Dr LI, Cai-Chang (School of Physics, Northwest University); FERUGLIO, Ferruccio; DING, Gui-Jun (ustc); DING, Gui-Jun (ustc); LU, Jun-Nan; KING, Stephen Frederick (University of Southampton (GB)); Dr LIU, Xiang-Gan (Department of Physics and Astronomy, University of California)

Presenters: DING, Gui-Jun (ustc); DING, Gui-Jun (ustc)

Session Classification: Plenary Session

Track Classification: Plenary