



Contribution ID: 226

Type: Parallel talk

A quark and lepton model with flavor specific DM and muon $g - 2$ in modular A_4 and hidden $U(1)$ symmetries

Friday, 7 July 2023 17:25 (25 minutes)

We consider a quark and lepton model explaining their masses, mixings, and CP violating phases, introducing modular A_4 and hidden gauged $U(1)$ symmetries. The hidden $U(1)$ brings us heavier Majorana fermions that are requested by chiral anomaly cancellations, and we work on a canonical seesaw scenario due to their neutral particles. Then, we discuss a scalar dark matter candidate that has flavor specific interactions. In addition, we study muon anomalous magnetic dipole moment where there are not any constraints of lepton flavor violations thanks to this flavor symmetry.

Primary authors: Dr OKADA, Hiroshi; NOMURA, Takaaki (Sichuan University)

Presenter: NOMURA, Takaaki (Sichuan University)

Session Classification: Parallel talks 6: Flavour & Precision Physics