

KEK Theory Meeting on Particle Physics Phenomenology (KEK-PH2018 winter) and 3rd KIAS-NCTS-KEK workshop on Particle Physics Phenomenology

Contribution ID: 82

Type: **not specified**

Leptoquarks for B-meson anomalies and dark matter

Wednesday, 5 December 2018 15:00 (30 minutes)

The LHCb experiment has recently provided several new measurements to test the lepton flavor universality in the Standard Model (SM) and confirmed some of the prevailing anomalies from the B-meson decays in BaBar and/or Belle experiments. We consider the setup where scalar leptoquarks or extra U(1) gauge bosons have flavor-dependent couplings to the SM. In this work, we discuss the flavor structure for quarks and leptons and various constraints on the model and propose a natural candidate for dark matter.

Presenter: RO, Tae Gyu (Chung-Ang University)

Session Classification: Poster Session & Tea Break