

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.

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Session Classification: Poster Session & Tea Break