

Connecting the B anomalies with the hierarchy problem

Monday 4 July 2022 15:00 (15 minutes)

Intriguing hints for lepton flavor universality violation have emerged from the measurement of B meson decays by LHCb. These B anomalies point to the new physics at the low TeV scale, exactly where we expect a solution to the hierarchy problem! In this talk, I will present an economical model that can address the two problems at once. The model is based on a $SU(4)/SP(4)$ fundamental composite Higgs model. The hierarchy problem can be solved by the compositeness of the pNGB Higgs, and the observed neutral current B anomalies can be explained by the additional Z' boson in the model. The model connects the energy scales of the EWSB and the B anomalies. I will discuss the experimental constraints from Higgs physics, flavor physics, and LHC direct searches.

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