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## Constraints on the B-anomalies-motivated $U_1$ leptoquark parameters from the LHC data

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The semileptonic B-decay anomalies could be a gateway to new physics. Of the theories and BSM models put forward, the vector charge- $2/3$   $U_1$  leptoquark (LQ) seems to be the best candidate to explain the anomalies seen in the  $R_{D^{(*)}}$  and  $R_{K^{(*)}}$  observables. In this talk, I will explore the LHC bounds on the  $U_1$  leptoquark model. I will present a list of possible scenarios with different coupling combinations that can contribute to the relevant operators. I will then discuss how the latest dilepton data and the direct search data can either limit or exclude these scenarios. Finally, I would show how an LQ of mass of about 1.5 TeV survives the LHC and other flavour bounds and explain the anomalies simultaneously.

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