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On the viable two leptoquark model for the B -physics anomalies

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I present a viable two leptoquark model based on $SU(5)$ gauge symmetry that addresses the B -physics anomalies. The entire low-energy flavor structure of the set-up originates from two $SU(5)$ operators that relate Yukawa couplings of the two leptoquarks. The proposed scenario accommodates all measured lepton flavor universality ratios in B -meson decays, is consistent with related flavor observables, and is compatible with direct searches at the LHC. The model is self-consistently perturbative, provides gauge coupling unification, and predicts several yet-to-be-measured flavor observables. I also discuss prospects for future discoveries of the two leptoquarks at the LHC.

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