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## Combined explanation of the B-anomalies.

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There are four models of tree-level new physics (NP) that can potentially simultaneously explain the  $b\to s\mu^+\mu^-$  and  $b\to c\ell^-\bar{\nu}$  anomalies. They are the S3, U3, and U1 leptoquarks, and a triplet of standard-model-like vector bosons (VBs). In this talk, I describe an analysis of these models with general couplings. We find that, even in this most general case,  $S_3$  and  $U_3$  are excluded. For the U1 model, I discuss the importance of the constraints from lepton-flavor-violating processes. As for the VB model, it is shown to be excluded by the LHC bounds on high-mass resonant dimuon pairs. This conclusion is reached without any assumptions about the NP couplings.

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