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Status of leptoquark searches at CMS

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Leptoquarks are hypothetical bosons with fractional electric charge which present a new symmetry between quarks and leptons. They are predicted in multiple models of physics beyond the standard model, including as a potential explanation of the current tension with the standard model seen in the decays of B mesons. An overview of the theoretical motivation and present searches for leptoquarks at CMS will be presented, in all three lepton generations, along with a discussion of the state of new searches targeting anomalies in the B-physics sector.

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