

Search for leptoquarks at CMS

Thursday, July 30, 2020 8:00 AM (20 minutes)

Leptoquarks are hypothetical color-triplet bosons, which carry both baryon and lepton quantum numbers and have fractional electric charge. They are predicted by many extensions of the standard model, such as theories invoking grand unification, technicolor, or compositeness. Third-generation scalar LQs have recently received considerable theoretical interest, as their existence can explain the anomaly in the $B \rightarrow D\tau\nu$ and $B \rightarrow D^* \tau\nu$ decay rates reported by the BaBar, Belle, and LHCb Collaborations. This talk presents latest results from searches for leptoquarks in CMS using the full Run-II data-set collected at the LHC.

I read the instructions

Secondary track (number)

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Session Classification: Beyond the Standard Model

Track Classification: 03. Beyond the Standard Model