

Abstract Submitted
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Searches for leptoquarks in CMS and possibilities for reinterpretation at the LHC DAVID MORSE, Northeastern Univ, CMS COLLABORATION — Leptoquarks are hypothetical bosons with fractional electric charge which present a new symmetry between quarks and leptons, as predicted in some BSM models. An overview of the theoretical motivation and present searches for leptoquarks at CMS will be presented, in all three lepton generations. Leptoquark searches also have strong reach for reinterpretation in other theoretical frameworks, particularly R-parity violating supersymmetry. These reinterpretations will be motivated and presented in addition to the above searches.

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