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Leptoquarks at colliders

In this work, we derive analytical expressions for the partonic cross sections of dilepton production mediated by leptoquarks in beyond-the-Standard-Model scenarios. We reinterpret existing proton–proton collision data, originally employed to constrain the properties of hypothetical (Z') bosons, to derive constraints on the masses and couplings of leptoquarks in unification models. This approach illustrates how existing collider data can be recast to probe different new-physics scenarios and provides complementary constraints on leptoquark parameter space.

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