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Proton Lifetime in Minimal SU(5)

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We will consider the proton decay in a class of minimal SU(5) GUTs mediated by color-triplets Higgsinos. Even though their masses are comparable with the GUT scale, they can still yield a shorter lifetime for the proton, especially in the low $\tan\beta$ region. In this work, we consider several threshold effects from Planck-suppressed operators, which lead to heavier triplet Higgsinos as well as correcting the wrong fermion mass relations realized in SU(5) GUTs.

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