

Minimal SUSY SU(5) GUT in the high-scale SUSY scenario

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We revisit the minimal supersymmetric SU(5) grand unified theory (SUSY SU(5) GUT) in the high-scale SUSY scenario. Although the model has been believed to be excluded due to the too short lifetime of proton, we have found that it is possible to evade the experimental constraints on the proton decay rate if the supersymmetric particles have masses much heavier than the electroweak scale. Since the resultant proton lifetime lies in the regions which may be reached in the future experiments, proton decay searches may give us a chance to verify the scenario as well as the supersymmetric grand unified models.

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