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Yukawa ratios and nucleon decay fingerprints in SU(5) GUTs

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We investigate the predictions for various nucleon decay rates in non-supersymmetric SU(5) models, where the masses of the third and second family down-type quarks and charged leptons each stem dominantly from single GUT operators and present a “fingerprinting” method to distinguish between GUT models with different flavor structure with the use of future experimental nucleon decay results.

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