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The Mu-Term and a Safe Proton: a Gauge Origin in SUSY

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Extending the MSSM by two new abelian symmetries allows for the understanding of both the size of the mu-term and the lack of baryon violating operators that would destabilize the proton. Many interesting phenomenological points ensue including a Z' that couples only to the third generation and exotic colored triplets which could lead to visible baryon number violation at the LHC.

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