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Towards natural and realistic E7 GUTs in F-theory

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We consider phenomenological aspects of a natural class of Standard Model-like supersymmetric F-theory vacua realized through flux breaking of rigid E7 gauge factors. It was shown that three generations of Standard Model matter can arise quite easily in these models. We further find that many other Standard Model-like features can easily be compatible with these constructions. For example, dimension-4 and 5 terms associated with proton decay are naturally suppressed.

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