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Splitting SO(10) with a bulk flux

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Recently, a model with SO(10) symmetry and bulk flux in 6d was constructed. Anomalies can be canceled and the flux leads to interesting features. Notably, a U(1) flux breaks supersymmetry at a high scale in the matter sector while leaving it intact on gauge and Higgs multiplets. On the other hand, the flux creates a multiplicity for the matter fields while protecting them from symmetry breaking by Wilson lines.

I present the model as well as preliminary results on its phenomenology.

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