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Model-building in heterotic string theory

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Model-building in string theory explores the question of producing at low-energies the Standard Model of particle physics from an underlying string theory. Heterotic $E_8 \times E_8$ string theory is one prominent avenue for model-building. Recently it has become possible to scan over large regions of the space of possible models, resulting in very many phenomenologically interesting models with the correct gauge group and matter content of the Standard Model. I will discuss work in this area, in particular in the context of heterotic/F-theory duality.

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