

Modular Calabi-Yau Threefolds in String Compactifications

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Résumé

I will consider attractor points of rank two on one-parameter families of Calabi-Yau manifolds (equivalently, flux-vacua with vanishing superpotential). I will explain how one may find such examples by arithmetic means and by exploiting symmetries of the family of Calabi-Yau manifolds. Finally, I will conclude with some speculation on the physical significance of these results.

<https://us06web.zoom.us/j/86271145836?pwd=MjhXUWRJRkpZdkRkL08xcTVDVjFHUT09>