

Minimalism in $\mathcal{N} = 2$ moduli spaces from orbifold constructions

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Utilizing freely acting asymmetric orbifolds in type IIB string theory, we construct a class of theories in 5D and 4D with 8 supercharges, where the moduli spaces for both vector multiplets and hypermultiplets can be determined without quantum corrections. By tuning the duality twist, all fields from the R-R sector can be rendered massive. This talk highlights two minimal examples: one with only two moduli in 5 dimensions, and another with only three moduli in 4 dimensions. All examples receive no perturbative nor non-perturbative corrections.

Presenter: NIAN, Guoen

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