

On the twist of heterotic supergravity

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We extend Costello and Li's conjectural description of the twist of heterotic supergravity on a Calabi-Yau 5-fold by constructing a candidate BCOV-type theory for an arbitrary supergravity background with flux. This in particular leads to an interesting dg extension of the generalised-geometric framework. This is a joint work with J. Kupka, I. Saberi, and C. Strickland-Constable.