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Maximally twisted eleven-dimensional supergravity

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In this talk I explain how the maximal twist of eleven-dimensional supergravity in the free perturbative limit can be computed directly in the BV formalism. The maximal twist exists on manifolds of $G_2 \times SU(2)$ holonomy and is partially topological. After a short introduction to the BV formalism and twisting, I describe the L_∞ action of the supersymmetry algebra on the component fields of the supergravity multiplet. Decomposing these transformations and the BV differential under $G_2 \times SU(2)$, the twisted theory can be identified. The result takes a simple form as conjectured by Costello. The talk is based on arxiv:2106.15640.

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