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On $D=6$, $N=(2,0)$ and $N=(4,0)$ theories

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We will begin with an introduction to the emerging paradigm of “gravity=gauge x gauge”. Then, using a field-theoretic incarnation of this notion, we will demonstrate how that the “square” of an Abelian $D=6$, $N=(2,0)$ theory yields the free $D=6$, $N=(4,0)$ theory constructed by Hull, together with its generalized (super)gauge transformations. This offers a new perspective on the $(4,0)$ theory and chiral theories of conformal gravity more generally, while at the same time extending the domain of the “gravity=gauge×gauge” paradigm. We will conclude with some related speculations on gravitational dualities.

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