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Towards Unreasonable Effectiveness in AdS5

We discuss four-derivative corrections to pure $\mathcal{N} = 2$, $D = 5$ gauged supergravity, up to field redefinitions. In particular, the possible four-derivative corrections can be parametrized on-shell by a basis of five terms. We have found that, up to factors of the two-derivative action, supersymmetry picks out a unique set of coefficients for these terms, ie, there is a unique five-dimensional superinvariant at the four-derivative level. Moreover, these coefficients can be verified (in the ungauged limit) on the BMPV solution.

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