

Conformal Renormalization of Einstein-AdS Gravity in 8D



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We show how Einstein-AdS gravity can be renormalized in the context of the Gauge/Gravity duality by considering the unique combination of 8D local conformal invariants which admits Einstein spaces as solutions. Upon evaluating this combination for Einstein spaces, the action for renormalized Einstein gravity is directly obtained. This generalizes the Conformal Renormalization program previously implemented for 4D and 6D, which we also review.

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