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AdS₄/CFT₃ holography from massive IIA

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Dimensional reduction of supergravity theories on spheres plays a central role in the gauge/gravity correspondence. Prominent examples are the reductions of eleven-dimensional supergravity on S^7 and type IIB supergravity on S^5 which are dual to ABJM and $N=4$ SYM theories, respectively. Using the recently discovered duality between massive IIA supergravity on S^6 and super Chern-Simons-matter theories, we will describe RG flows holographically in terms of domain-wall and black hole solutions in the gravity side.

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