

Dipartimento di Fisica

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## TITLE: Localization of the action in AdS/CFT

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## ABSTRACT

I will derive a simple formula for the action of any supersymmetric solution to minimal gauged supergravity in the context of the AdS\_4/CFT\_3 correspondence. Such solutions are equipped with a supersymmetric Killing vector, and I will show that the holographically renormalized action may be expressed entirely in terms of the weights of this vector field at its fixed points, together with certain topological data. In this sense, the classical gravitational partition function localizes in the bulk, and depends only on the topology of the fixed point set.

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