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TITULO: **Lovelock theory, black holes and holography**

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ABSTRACT

Lovelock theory is the natural extension of general relativity to higher dimensions. It can be also thought of as a toy model for ghost-free higher curvature corrections in gravitational theories. It generically admits a family of AdS vacua, most (but not all) of them supporting black hole solutions that display interesting features. This provides an appealing arena to explore different holographic aspects in the context of the AdS/CFT and the fluid/gravity correspondences.