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Universal black holes

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We consider a generalized Schwarzschild-like ansatz and prove that it can be consistently employed to construct d-dimensional static vacuum black hole solutions in any metric theory of gravity for which the Lagrangian is a scalar invariant constructed from the Riemann tensor and its covariant derivatives of arbitrary order. After describing the ansatz and the corresponding (reduced) field equations, we exemplify it in particular theories such as Gauss-Bonnet, quadratic and $F(R)$ gravity, and certain conformal gravities.

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