

Iberian Strings 2023



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On the thermodynamics of Kaluza-Klein black holes

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We study the thermodynamics of Kaluza-Klein black holes from the lower-dimensional point of view in which they are solutions of gravity coupled to a scalar and a vector field and from higher-dimensional point of view in which they are pure gravity (vacuum) solutions and compare both points of view which, in particular, should lead to exactly the same zeroth and first laws.

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