

## Documents

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**Black branes in four-dimensional conformal equivalent theories**

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**Abstract**

The physical properties of static analytic solutions which describe black brane geometries are discussed. In particular we study the similarities and differences of analytic black brane/string solutions in the Einstein and Jordan frames. The comparison is made between vacuum power law  $f(R)$  gravity solutions and their conformal equivalents in the Einstein frame. In our analysis we examine how the geometrical and physical properties of these analytic axisymmetric solutions—such as singularities, the temperature and the entropy—are affected as we pass from one frame to the other. © 2018, The Author(s).

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