# The curvature of the black hole space-time: a new approach to the problem of the cosmological constant problem

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## Abstract

We consider the curvature of a black hole space-time in the presence of a background field, and show that this curvature oscillates linearly as a function of the background field's momentum and the curvature of the black hole space-time. This in turn turns can be used to derive the cosmological constant problem for the black hole.