



Contribution ID: 195

Type: **not specified**

## The fate of horizons under quantum corrections

*Friday 13 January 2023 18:20 (15 minutes)*

In this paper, we study the physical effects of deforming the usual Einstein-Hilbert lagrangian with the Goroff-Sagnotti counterterm (the first which is nonvanishing on shell). The related facts that Schwarzschild's space-time is not a solution to the corresponding equations of motion and Birkhoff's theorem is not valid anymore are analyzed and some consequences worked out.

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**Session Classification:** 15' Contribution