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QED in the background of evaporating black holes

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Far away from black holes, one might expect that quantum field quantization performed in Minkowski space is a good approximation. Indeed, all experimental tests in the particle colliders reveal no deviations so far. Nevertheless, black holes should leave imprints of their presence in quantum processes. In this talk, we shall discuss several imprints of small evaporating black holes in QED in the weak gravity regime.

Primary author: Dr EMELYANOV, Viacheslav (Karlsruhe Institute of Technology)

Presenter: Dr EMELYANOV, Viacheslav (Karlsruhe Institute of Technology)

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