

On the spectral and time dependence of the decay of the Higgs field

[Guo-Liang Chen](#), [Rong-Zhen Wang](#)

Abstract

We investigate the spectral dependence of the decay rate of the Higgs field in a Schwarzschild black hole. In particular, we discuss the performance of the decay rate in the spectral regions of the black hole and with the time of the black hole.