8. On the subject of Hawking radiation.

Hawking radiation can be explained in the framework of the new bosonic mechanism using the approach outlined in Appendix A5, paragraph 2.1. Fig. 7, which outlines the existence of barrier - b.h.

Fig. 18 bellow depicts the mechanism of changing effective photon mass (ref. Appendix C, paragraph 1.3, item 1.2) as a result of the renormalization on the barrier-b.h. (ref. note: Appendix A5, paragraph 3).

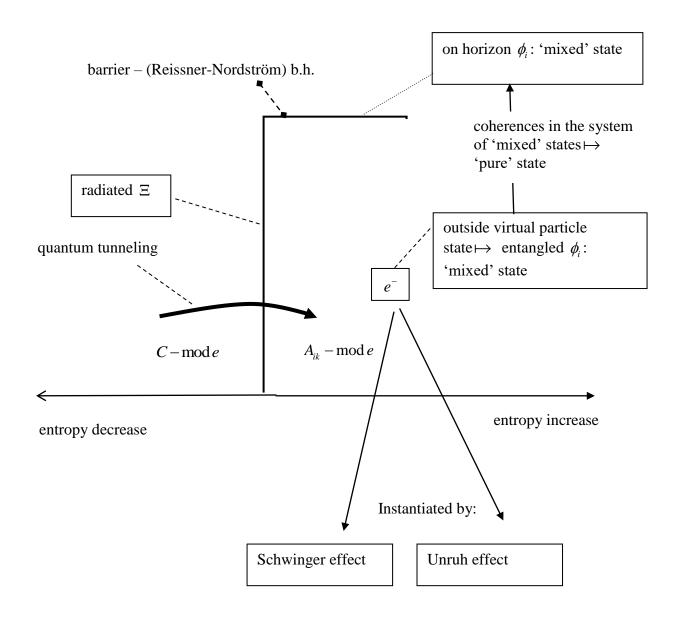


Fig. 18 Renormalization of photon mass on barrier-b.h..

Dark matter (particle), which is charged b.h. radiates Ξ (dark boson, which is a quant of dark field and a gauge boson of interaction between particles of dark matter).

Quantum tunneling for dark boson results in appearance of virtual e^- (Dirac sea) instantiated either by Schwinger or Unruh effects, which corresponds to entangled photon ϕ_i .