

Black Hole Radiation by Tunnelling Formulation

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Abstract. In this paper, we illustrate the Hawking radiation as a tunneling phenomenon in the Hamilton-Jacobi, using WKB approximation and other methods radiation from non-singular. Space –time diagram of the Krushkal and Painleve Gullstrand coordinates are being shown to acknowledge their regular behaviour at the horizon.

Keywords: Principal value, Killing vector, Halmilton-Jacobin equation, Regular coordinates.

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