

Quantum-induced trans-Planckian energy near horizon

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We study the loop effects on the geometry and boundary conditions of time-dependent black hole spacetimes and analyze the energy measured by an infalling observer near their horizons. As a result of our studies (A.J. Nurmagambetov & I.Y. Park JHEP05(2018)167) we obtain a trans-Planckian energy in the time-dependent case, the importance of which for the black hole (in)formation is discussed.

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