

The effect of the gravity of a black hole on the acceleration of energetic cosmic particles

Quantum mechanical particles will be affected by the gravitational field of black holes and the curvature of space. In general, by writing the structure of the desired Hilbert space near a black hole, the physical and quantum mechanical behavior of a fundamental particle can be investigated. For example, we will indicate the wave packet motion of a particle and its modified standard quantum equation in the gravitational field of a black hole.

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