Quantum gravity effects on Hawking radiation of scalar particles from rotating BTZ black hole

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The Generalized Klein Gordon equation obtained by using the Generalized Uncertainty Principle is used to study the quantum gravity effects on Hawking radiation of scalar particles from rotating BTZ black hole. The WKB approximation method is used to determine the tunneling rate of scalar particles across the event horizon of the black hole. Corrections to the Hawking temperature due to quantum gravity effects are studied.