

Quantum Tunneling Radiation of Reissner-Nordström de Sitter Black Hole with a Global Monopole

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Abstract: Applying Parikh's quantum tunneling model, we study the quantum tunneling radiation of Reissner-Nordström de Sitter black hole with a global monopole. The result shows that the tunneling rates at the event horizon and the cosmic horizon are related to Bekenstein-Hawking entropy if we take the energy conservation into consideration, and the true radiate spectrum is not precisely thermal.

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Key words: Reissner-Nordström de Sitter black hole, global monopole, energy conservation, tunneling rate

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