

论文

Vaidya Bonner de Sitter黑洞背景下电磁场的量子熵

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摘要:

在Tortoise坐标系中, 利用brick wall模型研究了电磁场对Vaidya Bonner de Sitter黑洞熵的量子修正. 当黑洞事件视界不随超前时间变化时, 结果与Reissner Nordstrom de Sitter黑洞的量子熵完全相同.

关键词: 电磁场; brick wall模型; Vaidya Bonner de Sitter黑洞; 量子熵.

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Quantum Entropy of the Electromagnetic Field in Vaidya Bonner de Sitter Black Hole

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Abstract:

In the tortoise coordinates, the quantum corrections to the entropy of the Vaidya Bonner de Sitter black hole due to electromagnetic field are investigated by using the brick wall model. When the event horizon of the black hole does not depend upon the advanced time, the result coincide with that of the Reissner Nordstrom de Sitter black hole.

Keywords: Electromagnetic field Brick wall model Vaidya Bonner de Sitter black hole Quantum entropy.

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- 电磁场; brick wall模型;
- ▶ Vaidya Bonner de Sitter黑洞; 量子熵.

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