Example Code of Beamer

Your Name

Jan 5, 2019

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Introduction

Block Title 1

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Example of subfigure

Idea A ← Idea B

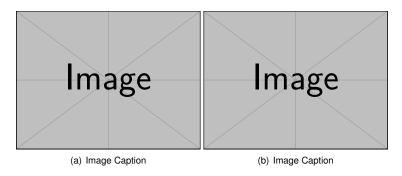


Figure 1: This is a caption

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Black hole

The metric and the electromagnetic field of the spherically symmetric solution

$$ds^{2} = -fdt^{2} + \frac{dr^{2}}{f} + r^{2}d\Omega_{2}^{2},$$
(1)

$$F = Edt \wedge dr, \quad E = \frac{Q}{\sqrt{r^4 + Q^2/b^2}}.$$
 (2)

where

$$\begin{split} f = & 1 - \frac{2M}{r} + \frac{r^2}{l^2} + \frac{2b^2}{r} \int_r^{\infty} \left(\sqrt{r^4 + \frac{Q^2}{b^2}} - r^2 \right) dr \\ = & 1 - \frac{2M}{r} + \frac{r^2}{l^2} + \frac{2b^2r^2}{3} \left(1 - \sqrt{1 + \frac{Q^2}{b^2r^4}} \right) \\ & + \frac{4Q^2}{3r^2} \,_2F_1\left(\frac{1}{4}, \frac{1}{2}; \frac{5}{4}; -\frac{Q^2}{b^2r^4} \right), \end{split}$$

and $_2F_1$ is the hypergeometry function, M and Q stand for black hole mass and charge. $d\Omega$ is the unit sphere on S^2 .

Content

Mass M

$$f(r_h) = 0 \Longrightarrow M = \frac{T}{v} - \frac{1 - \sqrt{\frac{16}{v^4} + 1}}{4\pi} - \frac{1}{2\pi v^2}$$
 (3)

Hawking temperature *T*

$$T = f'(r_{+})/4\pi = \frac{1}{4\pi r_{+}} \left[1 + \frac{3r_{+}^{2}}{l^{2}} + 2b^{2}r_{+}^{2} \left(1 - \sqrt{1 + \frac{Q^{2}}{b^{2}r_{+}^{4}}} \right) \right]$$
 (4)

Electric potential Φ

$$\Phi = \int_{r_{+}}^{\infty} E dr = \frac{Q}{r_{+}} {}_{2}F_{1}\left(\frac{1}{4}, \frac{1}{2}; \frac{5}{4}; -\frac{Q^{2}}{b^{2}r_{+}^{4}}\right). \tag{5}$$

The corresponding entropy is $S=\pi r_+^2$, The specific volume $v=2r_+l_P^2$ and corresponding pressure $P=-\frac{\Lambda}{8\pi}=\frac{3}{8\pi l^2}$

Conclusion

Conclusion 1

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Conclusion 2

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Thank You!



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