Example Code of Beamer

Your Name

Jan 5, 2019

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Introduction

Block Title 1

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Block Title 2

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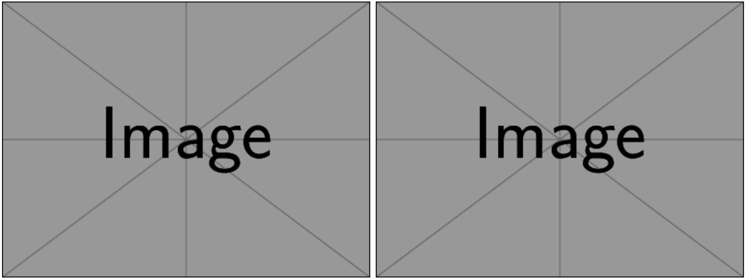
Example of subfigure

$$\text{Idea A} \Longleftrightarrow \text{Idea B}$$



(a) Image Caption (b) Image Caption

Figure 1: This is a caption

Black hole

The metric and the electromagnetic field of the spherically symmetric solution

$$ds^2 = -f dt^2 + \frac{dr^2}{f} + r^2 d\Omega_2^2\,, \tag{1}$$

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

where

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

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

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

Hawking temperature T

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

Electric potential Φ

$$\Phi=\int_{r_+}^{\infty}Edr=\frac{Q}{r_+}\,{}_2F_1\left(\frac{1}{4},\frac{1}{2};\frac{5}{4};-\frac{Q^2}{b^2r_+^4}\right). \tag{5}$$

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!