

= (0, 0, 0, 1)

-



+

—

2

+

3 Horizons of Kerr Black Holes in Depth



= \_\_\_\_\_

r<sub>+</sub>

 $r_{\scriptscriptstyle +}$ 

 $r_{+}$ 

() = 8 +

4 Equatorial Orbits

$$= - = \frac{1}{2} \left[ \left( \begin{array}{c} 2 + 2 + \frac{2}{2} + \frac{2}{2} \right) - \frac{2}{2} \right]$$
$$= - = \frac{1}{2} \left[ \left( 1 - \frac{2}{2} \right) + \frac{2}{2} \right]$$

u

u u

$$- = \frac{2 - 1 + - - \frac{2 - 2(2 - 1)}{2^2} + \frac{(-a)^2}{3}}{3}$$

2\_





-

 $\frac{1}{2}$  (fl

 $\Gamma_+$ 

5 The Ergosphere

$$=$$
 (--, 0, 0, 0)

$$\cdot$$
 = ( )<sup>2</sup> = - (1 -  $\frac{2}{2}$ ) ( )<sup>2</sup> = -1

$$() = + 2 - 2 - 2$$

( )

0 <sup>2</sup> 1

() r<sub>+</sub>

! -

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