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[Kerr metric - Wikipedia](#)

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symmetry, a new metric called the Kerr metric is obtained. Black holes described in the Kerr metric are parameterized by both their angular momentum and mass. 2 Kerr Geometry Roy Kerr discovered a family of geometries in 1963 now referred to as the Kerr Geometry. This metric is as follows,  
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## Kerr Geometry and Rotating Black Holes

Product Description. Product Details. This unique monograph by a noted UCLA professor examines in detail the mathematics of Kerr black holes, which possess the properties of mass and angular momentum but carry no electrical charge. Suitable for advanced undergraduates and graduate students of mathematics, physics, and astronomy as well as professional physicists, the self-contained treatment constitutes an introduction to modern techniques in differential geometry.

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GEOMETRY OF THE KERR BLACK HOLES 3 Definition 2.6.

Given  $v \in V$ , we say that the vector  $v$  is spacelike if  $\langle v, v \rangle > 0$  or

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$v = 0$ , null (or lightlike) if  $h_{\nu;\nu} = 0$  and  $v^6 = 0$ , timelike if  $h_{\nu;\nu} < 0$ . The type to which  $v$  belongs is called its causal character. Regarding this definition, the following lemma is perhaps the most important

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The Kerr–Newman metric describes the geometry of spacetime for a rotating charged black hole with mass  $M$ , charge  $Q$  and angular momentum  $J$ . The formula for this metric depends upon what coordinates or coordinate conditions are selected. Two forms are given below: Boyer–Lindquist coordinates, and Kerr–Schild coordinates.

## Kerr–Newman metric - Wikipedia

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