

Black Holes: Schwarzschild Solution

Schwarzschild Metric:

$$(ds)^2 = \left(c \sqrt{1 - \frac{2GM}{c^2 r}} dt \right)^2 - \left(\frac{dr}{\sqrt{1 - \frac{2GM}{c^2 r}}} \right)^2 - (r d\theta)^2 - (r \sin \theta d\phi)^2$$

$$(ds)^2 = \left(c \sqrt{1 - \frac{R_S}{r}} dt \right)^2 - \left(\frac{dr}{\sqrt{1 - \frac{R_S}{r}}} \right)^2 - (r d\theta)^2 - (r \sin \theta d\phi)^2$$

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