

D DIMENSIONAL SCHWARZSCHILD METRIC

$$ds^2 = \left(1 - \frac{R_S^{D-3}}{r^{D-3}}\right) dt^2 + \left(1 - \frac{R_S^{D-3}}{r^{D-3}}\right)^{-1} dr^2 + r^2 d\Omega_{D-2}^2$$