Metric

$$ds^{2} = -dt^{2} + (1 - f(r, t)) dr^{2} + r^{2} d\theta^{2} + r^{2} \sin^{2} \theta d\phi^{2}$$

Curvature Invariants

$$R = \frac{r^2 f(r,t) \frac{\partial^2}{\partial t^2} f(r,t) - \frac{r^2 \left(\frac{\partial}{\partial t} f(r,t)\right)^2}{2} - r^2 \frac{\partial^2}{\partial t^2} f(r,t) - 2r \frac{\partial}{\partial r} f(r,t) + 2f^2(r,t) - 2f(r,t)}{r^2 \left(f^2(r,t) - 2f(r,t) + 1\right)}$$

Stress-Energy Tensor

$$T_{\mu\nu} = \begin{pmatrix} \frac{2r(f(r,t)-1)^3 \frac{\partial^2}{\partial t^2} f(r,t) + r(f(r,t)-1)^2 \left(\frac{\partial}{\partial t} f(r,t)\right)^2 - 2r(f(r,t)-1) \frac{\partial^2}{\partial t^2} f(r,t) - r\left(\frac{\partial}{\partial t} f(r,t)\right)^2 + 4(f(r,t)-1)^3 \left(-2f(r,t) - \frac{\partial}{\partial r} f(r,t)\right)^2 + 4(f(r,t)-1)^3 \left(-2f(r,t) - \frac{\partial}{\partial r} f(r,t)\right)^2 - \frac{\partial^2}{\partial t} f(r,t) - r\left(\frac{\partial}{\partial t} f(r,t)\right)^2 + 4(f(r,t)-1)^3 \left(-2f(r,t) - \frac{\partial}{\partial r} f(r,t)\right)^2 - \frac{\partial^2}{\partial t} f(r,t) - r\left(\frac{\partial}{\partial t} f(r,t)\right)^2 - \frac{\partial^2}{\partial t} f(r,t) - r\left(\frac{\partial}{\partial t} f(r,t)\right)^2 - 2r(f(r,t)-1) \frac{\partial^2}{\partial t^2} f(r,t) - r\left(\frac{\partial}{\partial t} f(r,t)\right)^2 + 4(f(r,t)-1)^3 \left(-2f(r,t) - \frac{\partial}{\partial r} f(r,t)\right)^2 - \frac{\partial^2}{\partial t} f(r,t) - r\left(\frac{\partial}{\partial t} f(r,t)\right)^2 - r\left(\frac$$