Riemann Tensor (non-zero components)

$$R^{t}{}_{rtr} = \frac{2GM}{r^2\left(-2GM + r\right)}$$

$$R^{t}{}_{rrt} = \frac{2GM}{r^2\left(2GM - r\right)}$$

$$R^{t}{}_{\theta t\theta} = -\frac{GM}{r}$$

$$R^{t}{}_{\theta\theta t} = \frac{GM}{r}$$

$$R^{t}{}_{\phi t\phi} = -\frac{GM\sin^2\left(\theta\right)}{r}$$

$$R^{t}{}_{\phi\phi t} = \frac{GM\sin^2\left(\theta\right)}{r}$$

$$R^{r}{}_{ttr} = \frac{2GM\left(-2GM + r\right)}{r^4}$$

$$R^{r}{}_{trt} = \frac{2GM\left(2GM - r\right)}{r^4}$$

$$R^{r}{}_{\theta r\theta} = -\frac{GM}{r}$$

$$R^{r}{}_{\theta\theta r} = \frac{GM}{r}$$

$$R^{r}{}_{\phi r\phi} = -\frac{GM\sin^2\left(\theta\right)}{r}$$

$$R^{r}{}_{\phi\phi r} = \frac{GM\sin^2\left(\theta\right)}{r}$$

$$R^{\theta}{}_{tt\theta} = \frac{GM\left(2GM - r\right)}{r^4}$$

$$R^{\theta}{}_{t\theta t} = \frac{GM\left(-2GM + r\right)}{r^4}$$

$$R^{\theta}{}_{rr\theta} = \frac{GM}{r^2\left(-2GM + r\right)}$$

$$R^{\theta}{}_{r\theta r} = \frac{GM}{r^2\left(2GM - r\right)}$$

$$R^{\theta}{}_{\phi\theta\phi} = \frac{2GM\sin^2\left(\theta\right)}{r}$$

$$R^{\theta}{}_{\phi\phi\theta} = -\frac{2GM\sin^2\left(\theta\right)}{r}$$

$$R^{\phi}{}_{tt\phi} = \frac{GM\left(2GM - r\right)}{r^4}$$

$$R^{\phi}{}_{t\phi t} = \frac{GM\left(-2GM + r\right)}{r^4}$$

$$R^{\phi}{}_{rr\phi} = \frac{GM}{r^2\left(-2GM + r\right)}$$

$$R^{\phi}{}_{r\phi r} = \frac{GM}{r^2\left(2GM - r\right)}$$

$$R^{\phi}{}_{\theta\theta\phi} = -\frac{2GM}{r}$$

$$R^{\phi}{}_{\theta\phi\theta} = \frac{2GM}{r}$$