

FLRW metric $ds^2 = -dt^2 + a^2(t)[dx^2 + \sin^2\chi(d\theta^2 + \sin^2\theta d\phi^2)]$

$$\Gamma_{xx}^t = a\dot{a}$$

$$\Gamma_{xt}^x = \Gamma_{tx}^x = \frac{\dot{a}}{a}$$

$$\Gamma_{\theta\theta}^t = a\dot{a}\sin^2\chi$$

$$\Gamma_{t\theta}^\theta = \Gamma_{\theta t}^\theta = \frac{\dot{a}}{a}$$

$$\Gamma_{\phi\phi}^t = a\dot{a}\sin^2\chi\sin^2\theta$$

$$\Gamma_{\phi t}^\phi = \Gamma_{t\phi}^\phi = \frac{\dot{a}}{a}$$

$$\Gamma_{\theta\theta}^x = -\sin\chi\cot\chi$$

$$\Gamma_{\theta\chi}^\theta = \Gamma_{\chi\theta}^\theta = \cot\chi$$

$$\Gamma_{\phi\phi}^x = -\sin\chi\cot\chi\sin^2\theta$$

$$\Gamma_{\phi\chi}^x = \Gamma_{\chi\phi}^x = \cot\chi$$

$$\Gamma_{\phi\theta}^\theta = -\sin\theta\cot\theta$$

$$\Gamma_{\phi\theta}^\phi = \Gamma_{\theta\phi}^\phi = \cot\theta$$

$$R^t_{\chi\chi t} = -a\ddot{a}$$

$$R^x_{\theta\theta\chi} = -\sin^2\chi(1+\dot{a}^2)$$

$$R^t_{\theta\theta t} = -a\dot{a}\sin^2\chi$$

$$R^t_{\phi\phi t} = -a\dot{a}\sin^2\chi\sin^2\theta$$

$$R^x_{\phi\phi\chi} = -\sin^2\chi\sin^2\theta(1+\dot{a}^2)$$

$$R^\theta_{\phi\phi\theta} = -\sin^2\chi\sin^2\theta(1+\dot{a}^2)$$