Robertson-Walker Metric locally Minkowski:

$\boxed{x^\mu}$

$x^0 = t.$
$x^1 = x.$
$x^2 = y.$
$x^3 = z.$

$\boxed{g_{\mu\nu}}$

$g_{00} = (R(t)^m)^2.$
$g_{01} = 0.$
$g_{02} = 0.$
$g_{03} = 0.$
$g_{10} = 0.$
$g_{11} = -(R(t)^n)^2.$
$g_{12} = 0.$
$g_{13} = 0.$
$g_{20} = 0.$
$g_{21} = 0.$
$g_{22} = -(R(t)^n)^2.$
$g_{23} = 0.$
$g_{30} = 0.$
$g_{31} = 0.$
$g_{32} = 0.$
$g_{33} = -(R(t)^n)^2.$

$\boxed{\sqrt{} = \sqrt{-\det(g_{\mu\nu})}}$

$\sqrt{} = \sqrt{(R(t)^m)^2 (R(t)^n)^6}.$

$\boxed{g^{\mu\nu}}$

$g^{00} = \frac{1}{(R(t)^m)^2}.$
$g^{01} = 0.$
$g^{02} = 0.$
$g^{03} = 0.$
$g^{10} = 0.$
$g^{11} = -\frac{1}{(R(t)^n)^2}.$
$g^{12} = 0.$
$g^{13} = 0.$
$g^{20} = 0.$
$g^{21} = 0.$
$g^{22} = -\frac{1}{(R(t)^n)^2}.$
$g^{23} = 0.$
$g^{30} = 0.$
$g^{31} = 0.$
$g^{32} = 0.$
$g^{33} = -\frac{1}{(R(t)^n)^2}.$

$\boxed{\Gamma^\sigma_{\mu\nu}}$

$\Gamma^0_{00} = \frac{m\dot{R}(t)}{R(t)}.$
$\Gamma^0_{01} = 0.$
$\Gamma^0_{02} = 0.$
$\Gamma^0_{03} = 0.$
$\Gamma^0_{10} = 0.$
$\Gamma^0_{11} = \frac{n(R(t)^n)^2 \dot{R}(t)}{(R(t)^m)^2 R(t)}.$
$\Gamma^0_{12} = 0.$
$\Gamma^0_{13} = 0.$
$\Gamma^0_{20} = 0.$
$\Gamma^0_{21} = 0.$
$\Gamma^0_{22} = \frac{n(R(t)^n)^2 \dot{R}(t)}{(R(t)^m)^2 R(t)}.$
$\Gamma^0_{23} = 0.$
$\Gamma^0_{30} = 0.$
$\Gamma^0_{31} = 0.$
$\Gamma^0_{32} = 0.$
$\Gamma^0_{33} = \frac{n(R(t)^n)^2 \dot{R}(t)}{(R(t)^m)^2 R(t)}.$

$\Gamma^1_{00} = 0.$
$\Gamma^1_{01} = \frac{n\dot{R}(t)}{R(t)}.$
$\Gamma^1_{02} = 0.$
$\Gamma^1_{03} = 0.$
$\Gamma^1_{10} = \frac{n\dot{R}(t)}{R(t)}.$
$\Gamma^1_{11} = 0.$
$\Gamma^1_{12} = 0.$
$\Gamma^1_{13} = 0.$
$\Gamma^1_{20} = 0.$
$\Gamma^1_{21} = 0.$
$\Gamma^1_{22} = 0.$
$\Gamma^1_{23} = 0.$
$\Gamma^1_{30} = 0.$
$\Gamma^1_{31} = 0.$
$\Gamma^1_{32} = 0.$
$\Gamma^1_{33} = 0.$

$\Gamma^2_{00} = 0.$
$\Gamma^2_{01} = 0.$
$\Gamma^2_{02} = \frac{n\dot{R}(t)}{R(t)}.$
$\Gamma^2_{03} = 0.$
$\Gamma^2_{10} = 0.$
$\Gamma^2_{11} = 0.$
$\Gamma^2_{12} = 0.$
$\Gamma^2_{13} = 0.$
$\Gamma^2_{20} = \frac{n\dot{R}(t)}{R(t)}.$
$\Gamma^2_{21} = 0.$
$\Gamma^2_{22} = 0.$
$\Gamma^2_{23} = 0.$
$\Gamma^2_{30} = 0.$
$\Gamma^2_{31} = 0.$
$\Gamma^2_{32} = 0.$
$\Gamma^2_{33} = 0.$

$\Gamma^3_{00} = 0.$
$\Gamma^3_{01} = 0.$
$\Gamma^3_{02} = 0.$
$\Gamma^3_{03} = \frac{n\dot{R}(t)}{R(t)}.$
$\Gamma^3_{10} = 0.$
$\Gamma^3_{11} = 0.$
$\Gamma^3_{12} = 0.$
$\Gamma^3_{13} = 0.$
$\Gamma^3_{20} = 0.$
$\Gamma^3_{21} = 0.$
$\Gamma^3_{22} = 0.$
$\Gamma^3_{23} = 0.$
$\Gamma^3_{30} = \frac{n\dot{R}(t)}{R(t)}.$
$\Gamma^3_{31} = 0.$
$\Gamma^3_{32} = 0.$
$\Gamma^3_{33} = 0.$

$\boxed{R_{\mu\nu}}$

$R_{00} = -3\frac{n\ddot{R}(t)^2 + mn\ddot{R}(t)^2 - n^2\dot{R}(t)^2 - \ddot{R}(t)R(t)n}{R(t)^2}.$
$R_{01} = 0.$
$R_{02} = 0.$
$R_{03} = 0.$
$R_{10} = 0.$
$R_{11} = \frac{(R(t)^m)^6 n(R(t)^n)^2\dot{R}(t)^2 - (R(t)^m)^6\ddot{R}(t)R(t)n(R(t)^n)^2 - 3(R(t)^m)^6 n^2(R(t)^n)^2\dot{R}(t)^2 + m(R(t)^m)^6 n(R(t)^n)^2\dot{R}(t)^2}{(R(t)^m)^8 R(t)^2}.$
$R_{12} = 0.$
$R_{13} = 0.$
$R_{20} = 0.$
$R_{21} = 0.$
$R_{22} = \frac{(R(t)^m)^6 n(R(t)^n)^2\dot{R}(t)^2 - (R(t)^m)^6\ddot{R}(t)R(t)n(R(t)^n)^2 - 3(R(t)^m)^6 n^2(R(t)^n)^2\dot{R}(t)^2 + m(R(t)^m)^6 n(R(t)^n)^2\dot{R}(t)^2}{(R(t)^m)^8 R(t)^2}.$
$R_{23} = 0.$
$R_{30} = 0.$
$R_{31} = 0.$
$R_{32} = 0.$
$R_{33} = \frac{(R(t)^m)^6 n(R(t)^n)^2\dot{R}(t)^2 - (R(t)^m)^6\ddot{R}(t)R(t)n(R(t)^n)^2 - 3(R(t)^m)^6 n^2(R(t)^n)^2\dot{R}(t)^2 + m(R(t)^m)^6 n(R(t)^n)^2\dot{R}(t)^2}{(R(t)^m)^8 R(t)^2}.$

$\boxed{R^\mu_{\ \nu}}$

$R^0_{\ 0} = -3\frac{n\ddot{R}(t)^2}{(R(t)^m)^2 R(t)^2} + 3\frac{\ddot{R}(t)n}{(R(t)^m)^2 R(t)} + 3\frac{n^2\dot{R}(t)^2}{(R(t)^m)^2 R(t)^2} - 3\frac{mn\dot{R}(t)^2}{(R(t)^m)^2 R(t)^2}.$
$R^0_{\ 1} = 0.$
$R^0_{\ 2} = 0.$
$R^0_{\ 3} = 0.$
$R^1_{\ 0} = 0.$
$R^1_{\ 1} = -\frac{n\dot{R}(t)^2}{(R(t)^m)^2 R(t)^2} + \frac{\ddot{R}(t)n}{(R(t)^m)^2 R(t)} + 3\frac{n^2\dot{R}(t)^2}{(R(t)^m)^2 R(t)^2} - \frac{mn\dot{R}(t)^2}{(R(t)^m)^2 R(t)^2}.$
$R^1_{\ 2} = 0.$
$R^1_{\ 3} = 0.$
$R^2_{\ 0} = 0.$
$R^2_{\ 1} = 0.$
$R^2_{\ 2} = -\frac{n\dot{R}(t)^2}{(R(t)^m)^2 R(t)^2} + \frac{\ddot{R}(t)n}{(R(t)^m)^2 R(t)} + 3\frac{n^2\dot{R}(t)^2}{(R(t)^m)^2 R(t)^2} - \frac{mn\dot{R}(t)^2}{(R(t)^m)^2 R(t)^2}.$
$R^2_{\ 3} = 0.$
$R^3_{\ 0} = 0.$
$R^3_{\ 1} = 0.$
$R^3_{\ 2} = 0.$
$R^3_{\ 3} = -\frac{n\dot{R}(t)^2}{(R(t)^m)^2 R(t)^2} + \frac{\ddot{R}(t)n}{(R(t)^m)^2 R(t)} + 3\frac{n^2\dot{R}(t)^2}{(R(t)^m)^2 R(t)^2} - \frac{mn\dot{R}(t)^2}{(R(t)^m)^2 R(t)^2}.$

$\boxed{R}$

$R = -6\frac{n\dot{R}(t)^2}{(R(t)^m)^2 R(t)^2} + 6\frac{\ddot{R}(t)n}{(R(t)^m)^2 R(t)} + 12\frac{n^2\dot{R}(t)^2}{(R(t)^m)^2 R(t)^2} - 6\frac{mn\dot{R}(t)^2}{(R(t)^m)^2 R(t)^2}.$

$\boxed{G^{\mu}_{\nu}}$

$G^{0}_{0} = -3\frac{n^2\dot{R}(t)^2}{(R(t)^m)^2R(t)^2}.$

$G^{0}_{1} = 0.$

$G^{0}_{2} = 0.$

$G^{0}_{3} = 0.$

$G^{1}_{0} = 0.$

$G^{1}_{1} = 2\frac{n\dot{R}(t)^2}{(R(t)^m)^2R(t)^2} - 2\frac{\ddot{R}(t)n}{(R(t)^m)^2R(t)} - 3\frac{n^2\dot{R}(t)^2}{(R(t)^m)^2R(t)^2} + 2\frac{mn\dot{R}(t)^2}{(R(t)^m)^2R(t)^2}.$

$G^{1}_{2} = 0.$

$G^{1}_{3} = 0.$

$G^{2}_{0} = 0.$

$G^{2}_{1} = 0.$

$G^{2}_{2} = 2\frac{n\dot{R}(t)^2}{(R(t)^m)^2R(t)^2} - 2\frac{\ddot{R}(t)n}{(R(t)^m)^2R(t)} - 3\frac{n^2\dot{R}(t)^2}{(R(t)^m)^2R(t)^2} + 2\frac{mn\dot{R}(t)^2}{(R(t)^m)^2R(t)^2}.$

$G^{2}_{3} = 0.$

$G^{3}_{0} = 0.$

$G^{3}_{1} = 0.$

$G^{3}_{2} = 0.$

$G^{3}_{3} = 2\frac{n\dot{R}(t)^2}{(R(t)^m)^2R(t)^2} - 2\frac{\ddot{R}(t)n}{(R(t)^m)^2R(t)} - 3\frac{n^2\dot{R}(t)^2}{(R(t)^m)^2R(t)^2} + 2\frac{mn\dot{R}(t)^2}{(R(t)^m)^2R(t)^2}.$

$\boxed{G}$

$G = 6\frac{n\dot{R}(t)^2}{(R(t)^m)^2R(t)^2} - 6\frac{\ddot{R}(t)n}{(R(t)^m)^2R(t)} - 12\frac{n^2\dot{R}(t)^2}{(R(t)^m)^2R(t)^2} + 6\frac{mn\dot{R}(t)^2}{(R(t)^m)^2R(t)^2}.$

$\boxed{G^{\mu}_{\nu;\mu} = 0}$

$G^{\mu}_{0;\mu} = 0.$

$G^{\mu}_{1;\mu} = 0.$

$G^{\mu}_{2;\mu} = 0.$

$G^{\mu}_{3;\mu} = 0.$

$\boxed{g^{\mu\nu}\,\Gamma^{\lambda}_{\mu\nu} = 0?}$

$g^{\mu\nu}\,\Gamma^{0}_{\mu\nu} = \frac{m(R(t)^m)^2\dot{R}(t)}{R(t)} - 3\frac{n(R(t)^n)^4\dot{R}(t)}{(R(t)^m)^2R(t)}.$

$g^{\mu\nu}\,\Gamma^{1}_{\mu\nu} = 0.$

$g^{\mu\nu}\,\Gamma^{2}_{\mu\nu} = 0.$

$g^{\mu\nu}\,\Gamma^{3}_{\mu\nu} = 0.$