Uniform Acceleration Internal Metric:

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x^{\mu}
  x^0 = t.
   x^1 = x.
   x^2 = y.
   x^3 = z.
 g_{\mu 
u}
   g_{00} = 1.
   g_{01} = -2\sinh(tg)\cosh(tg).
   g_{02}=0.
    g_{03} = 0.
   g_{10} = -2\sinh(tg)\cosh(tg).
   g_{11} = -\cosh(tg)^2 + \sinh(tg)^2.
   g_{12}=0.
    g_{13}=0.
    g_{20}=0.
    g_{21}=0.
    g_{22} = -1.
    g_{23}=0.
    g_{30}=0.
    g_{31} = 0.
    g_{32} = 0.
    g_{33} = -1.
\sqrt{\sqrt{-\det(g_{\mu\nu})}}
   \sqrt{=\sqrt{4\sinh(tg)^2\cosh(tg)^2+\cosh(tg)^2-\sinh(tg)^2}}.
   g^{00} = \frac{\cosh(tg)^2 - \sinh(tg)^2}{4\sinh(tg)^2 \cosh(tg)^2 + \cosh(tg)^2 - \sinh(tg)^2}.
   g^{01} = -2 \frac{\sinh(tg)\cosh(tg)}{4\sinh(tg)^2\cosh(tg)^2 + \cosh(tg)^2 - \sinh(tg)^2}.
   g^{02} = 0.
   g^{03} = 0.
   g^{10} = -2 \frac{\sinh(tg)\cosh(tg)}{4\sinh(tg)^2\cosh(tg)^2 + \cosh(tg)^2 - \sinh(tg)^2}.
  g^{11} = -\frac{1}{4\sinh(tg)^2\cosh(tg)^2 + \cosh(tg)^2 - \sinh(tg)^2}.
   g^{12} = 0.
   g^{13} = 0.
   g^{20} = 0.
   g^{21} = 0.
   g^{22} = -1.
   g^{23} = 0.
   g^{30} = 0.
   g^{31} = 0.
   g^{32} = 0.
   g^{33} = -1.
\Gamma^{\sigma}_{\mu\nu}
   \Gamma^0_{00} = 4 \frac{\sinh(tg) \cosh(tg) (g \cosh(tg)^2 + \sinh(tg)^2 g)}{4 \sinh(tg)^2 \cosh(tg)^2 + \cosh(tg)^2 - \sinh(tg)^2}.
   \Gamma^{0}_{01} = 0.
\Gamma^{0}_{02} = 0.
\Gamma^{0}_{03} = 0.
\Gamma^{0}_{10} = 0.
   \Gamma_{11}^0 = 0.
   \Gamma_{12}^0 = 0.
   \Gamma^0_{13} = 0.
   \Gamma^0_{20} = 0.
\Gamma^0_{21} = 0.
   \Gamma^0_{22} = 0.
   \Gamma^{0}_{23} = 0.
\Gamma^{0}_{30} = 0.
   \Gamma^0_{31} = 0.
   \Gamma^{0}_{32} = 0.
\Gamma^{0}_{33} = 0.
   \Gamma_{00}^{1} = 2 \frac{g \cosh(tg)^{2} + \sinh(tg)^{2} g}{4 \sinh(tg)^{2} \cosh(tg)^{2} + \cosh(tg)^{2} - \sinh(tg)^{2}}.
   \Gamma^1_{01} = 0.
  \Gamma^1_{02} = 0.
   \Gamma^1_{03} = 0.
   \Gamma_{10}^1 = 0.
   \Gamma_{11}^1 = 0.
  \Gamma_{12}^1 = 0.
   \Gamma^1_{13} = 0.
   \Gamma^1_{20} = 0.
  \Gamma_{21}^1 = 0.
   \Gamma^1_{22} = 0.
  \Gamma^{1}_{23} = 0.
\Gamma^{1}_{30} = 0.
   \Gamma_{31}^1 = 0.
   \Gamma^{1}_{32} = 0.
\Gamma^{1}_{33} = 0.
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$$\begin{split} &\Gamma_{00}^2 = 0. \\ &\Gamma_{01}^2 = 0. \\ &\Gamma_{02}^2 = 0. \\ &\Gamma_{03}^2 = 0. \\ &\Gamma_{10}^2 = 0. \\ &\Gamma_{11}^2 = 0. \\ &\Gamma_{13}^2 = 0. \\ &\Gamma_{21}^2 = 0. \\ &\Gamma_{20}^2 = 0. \\ &\Gamma_{21}^2 = 0. \\ &\Gamma_{21}^2 = 0. \\ &\Gamma_{21}^2 = 0. \\ &\Gamma_{22}^2 = 0. \\ &\Gamma_{23}^2 = 0. \\ &\Gamma_{31}^2 = 0. \\ &\Gamma_{31}^2 = 0. \\ &\Gamma_{31}^2 = 0. \\ &\Gamma_{33}^2 = 0. \\ &\Gamma_{33}^2 = 0. \\ \end{split}$$
 $\Gamma^{3}_{00} = 0.$ $\Gamma^{3}_{01} = 0.$ $\Gamma^{3}_{02} = 0.$ $\Gamma^{3}_{03} = 0.$ $\Gamma^{3}_{10} = 0.$ $\Gamma^{3}_{11} = 0.$ $\Gamma^{3}_{12} = 0.$ $\Gamma^{3}_{13} = 0.$ $\Gamma^{3}_{13} = 0.$ $\Gamma^{3}_{20} = 0.$ $\Gamma^{3}_{21} = 0.$ $\Gamma^{3}_{23} = 0.$ $\Gamma^{3}_{33} = 0.$ $\Gamma^{3}_{33} = 0.$ $\Gamma^{3}_{33} = 0.$ $\Gamma^{3}_{31} = 0.$ $\Gamma^{3}_{32} = 0.$ $\Gamma^{3}_{33} = 0.$ $\Gamma^{3}_{31} = 0.$ $\Gamma^{3}_{32} = 0.$ $\Gamma^{3}_{33} = 0.$ $R_{10} = 0.$ $R_{10} = 0.$ $R_{11} = 0.$ $R_{12} = 0.$ $R_{11} = 0.$ $R_{12} = 0.$ $R_{21} = 0.$ $R_{21} = 0.$ $R_{22} = 0.$ $R_{23} = 0.$ $R_{33} = 0.$ $R^{1}_{10} = 0.$ $R^{1}_{11} = 0.$ $R^{1}_{12} = 0.$ $R^{1}_{13} = 0.$ $R^{1}_{14} = 0.$ $R^{1}_{15} = 0.$

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

 $g^{\mu\nu}\,\Gamma^0_{\mu\nu} = 4\frac{\sinh(tg)^3g\cosh(tg)}{4\sinh(tg)^2\cosh(tg)^2 + \cosh(tg)^2 - \sinh(tg)^2} + 4\frac{\sinh(tg)g\cosh(tg)^3}{4\sinh(tg)^2\cosh(tg)^2 + \cosh(tg)^2 - \sinh(tg)^2}.$ $g^{\mu\nu}\,\Gamma^1_{\mu\nu} = 2\frac{g\cosh(tg)^2 + \cosh(tg)^2 - \sinh(tg)^2}{4\sinh(tg)^2\cosh(tg)^2 + \cosh(tg)^2 - \sinh(tg)^2} + 2\frac{g\cosh(tg)^2 - \sinh(tg)^2}{4\sinh(tg)^2\cosh(tg)^2 + \cosh(tg)^2 - \sinh(tg)^2} + 2\frac{\sinh(tg)^2g}{4\sinh(tg)^2\cosh(tg)^2 + \cosh(tg)^2 - \sinh(tg)^2} + g^{\mu\nu}\,\Gamma^2_{\mu\nu} = 0.$ $g^{\mu\nu}\,\Gamma^2_{\mu\nu} = 0.$ $g^{\mu\nu}\,\Gamma^3_{\mu\nu} = 0.$