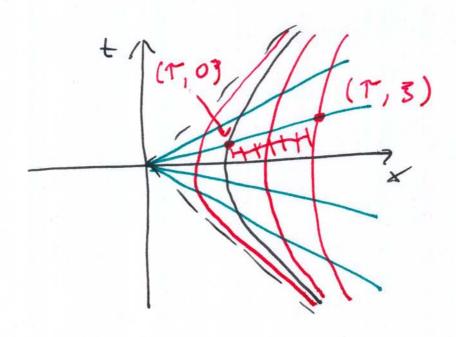
The metric in accelerating radio coordinates:

$$x = \frac{c^2}{9} e^{\frac{93}{6}c^2} \cosh\left(\frac{97}{c}\right)$$

ds=-c2dt2+dx2=e2g3/c2(-dT2+d32)

exercise!



$$x(3) = \int_0^{3} ds = \int_0^{3} e^{93/c^2} d3$$

$$dx = e^{93/c^2} d3 = \frac{c^2}{9} (e^{93/c^2} - 1)$$

$$3(x) = \frac{3^{2}}{9} \ln \left(1 + \frac{9}{2^{2}}x\right)$$

$$d3 = e^{-\frac{35}{2^{2}}} dx$$

$$d3 = e^{-\frac{35}{2^{2}}} dx$$

$$d5^{2} = -e^{\frac{295}{2^{3}}} c^{2} d7^{2} + dx^{2}$$

$$d5^{2} = -e^{2} (1 + 9x/c^{2}) d7^{2} + dx^{2}$$

gravitational potential in a uniform field.

