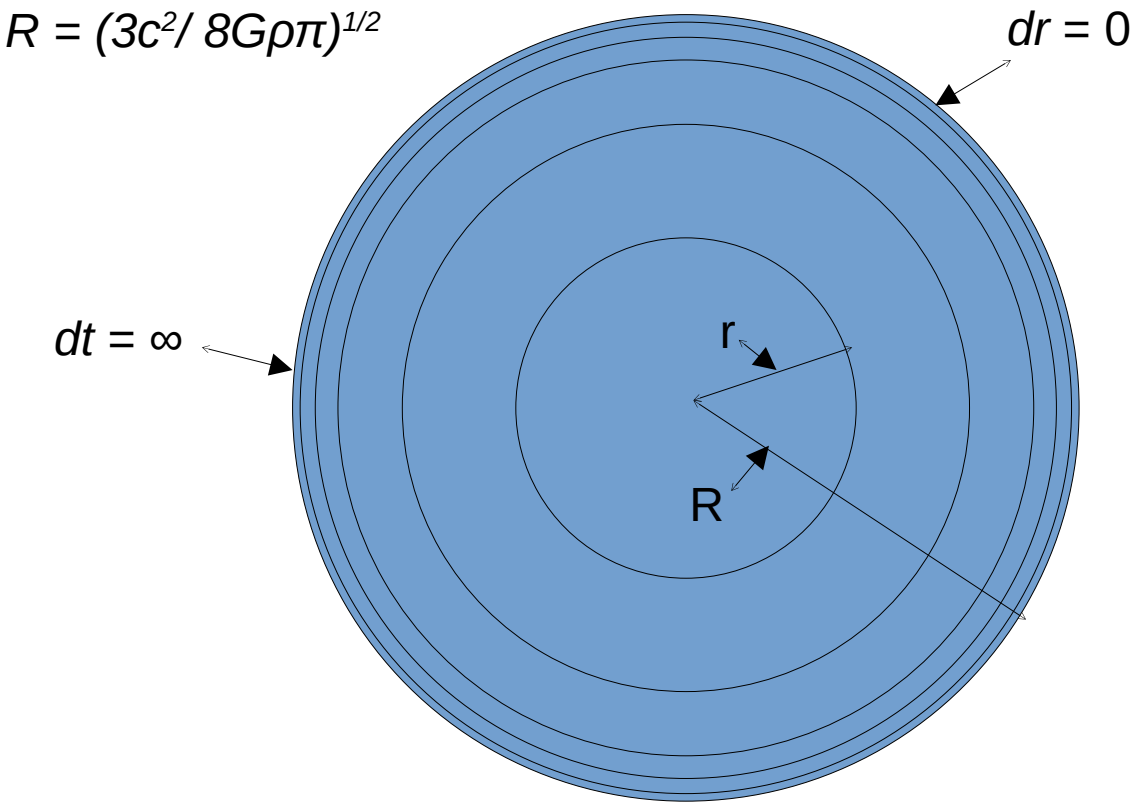
Adding shells of decreasing thickness *dr*



$$dt = \left(1 - \frac{8\,G\rho_{critical}\,\pi r^2}{3\,c^2}\right)^{-\frac{1}{2}} d\tau \qquad dr = \left(1 - \frac{8\,G\rho_{critical}\,\pi r^2}{3\,c^2}\right)^{\frac{1}{2}} d\sigma$$

Shells start with a thickness $d\sigma$ at an infinite distance, and are brought in to the spherical surface at a radius, *r.*

At this radius their thickness is reduced to dr.

When $r = (3c^2/8G\rho\pi)^{1/2}$, $dr = 0$