

Friedmann Dust Metric

$$ds^2 = -c^2 dt^2 + \left(\cosh \left(\frac{3t}{a} - 1 \right) \right)^{2/3} (x^2 + y^2 + z^2)$$

— (1)

Perfect Fluid Sphere

$$ds^2 = - (1 + ar^2) c^2 dt^2 + \frac{(1 - 3ar^2)^{2/3}}{(1 + 3ar^2)^{2/3} - br^2} dr^2$$
$$+ r^2 d\theta^2 + r^2 \sin^2 \theta d\phi^2$$

— (2)