

Figure 1

$$\text{Speed of sound} = V = c(de/dp)^{1/2}$$

With a cosmological constant Λ ,
effectively $e = -p = \Lambda/8\pi$ & $V = ic$.

$$\text{If } p = e/3 - b^2/e :$$

For $e \gg b$, $p = e/3$ (radiation).

For $e \ll b$, $p < 0$ and the model
expands exponentially like an
empty universe with $\Lambda = 4\sqrt{3}\pi b$.

$V = c[1/3 + b^2/e^2]^{1/2}$ and $V > c$
when e drops below $b\sqrt{3}/2$.

$\Phi = Q/d$ [Potential due to a static charge]

$\Phi(t) = Q(t \pm d/c)/d$ [Potentials due to a varying source]

$\Phi(t) = Q(t - d/c)/d$ Retarded

$\Phi(t) = Q(t + d/c)/d$ Advanced

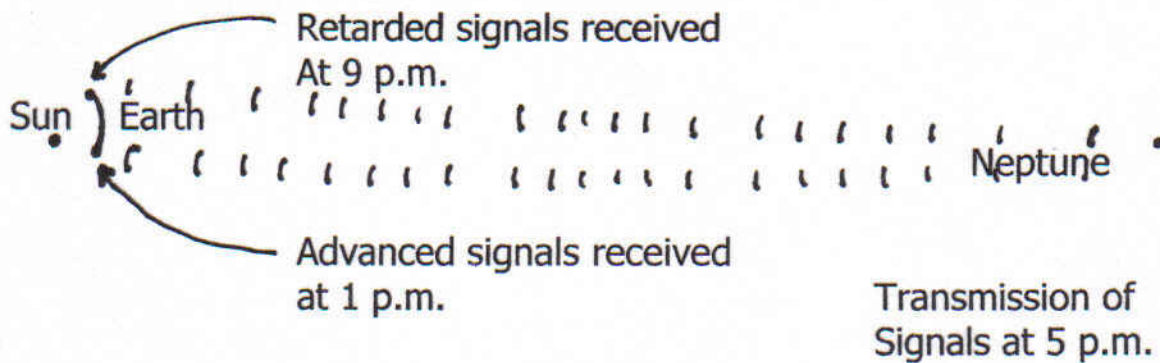
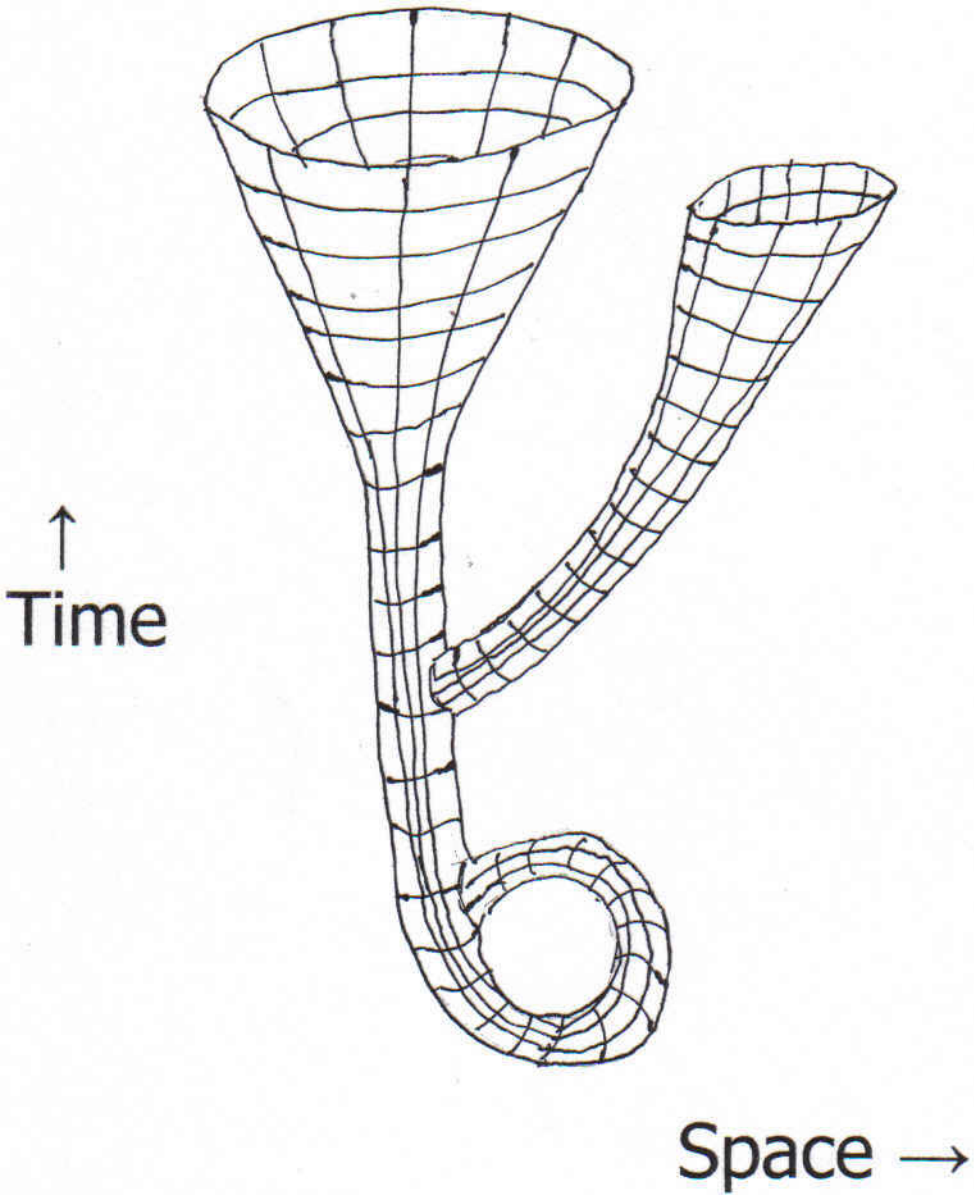


Figure 2



The Li – Gott Multiverse

Figure 3