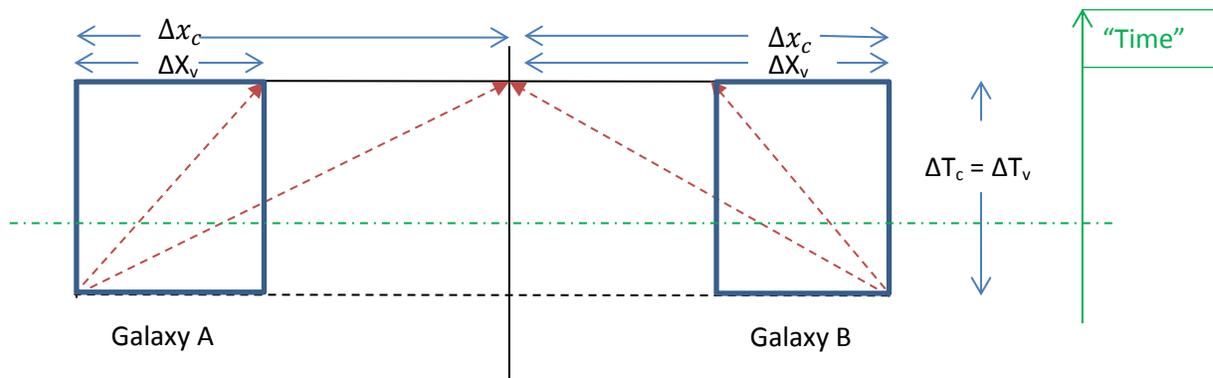# Galactic Creation and Destruction

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In the following diagram two photons and two Galaxies are created (initially with zero Mass, as a "gleam in god's eye.". :) at the lower right and left hand corners. During the Mass Creation epic $0 \leq T \leq T'$ they acquire Mass at rates ΔC and ΔV, respectively. After the Mass Creation interval $\Delta T_c = \Delta T_v$, they are destroyed. Time is moving upward, actual reality is on an x-axis moving upwards, with photons and Galaxies accreting; the state of accretion is given by the intersection of the x-axis with the dashed lines. The photons are destroyed ("observed") at thecenter, the Galaxies are destroyed ("observed") to the left and right of center…. (Positive and negative matter/charge are equal during the process, etc.)

$$Let \quad \Delta t_v = \Delta t_c$$

$$\frac{\Delta v}{\Delta c} = \frac{\Delta x_v}{\Delta t_v} \frac{\Delta t_c}{\Delta x_c}$$

$$\frac{\Delta v}{\Delta c} = \frac{\Delta x_v}{\Delta x_c} = \frac{\Delta V}{\Delta C} = \sqrt{1 - \frac{\Delta T^2}{\Delta T'^2}}$$

$$\Delta x_v = \Delta x_c \sqrt{1 - \frac{\Delta T^2}{\Delta T'^2}} = \Delta x_c \sqrt{1 - \frac{(\rho \Delta C \Delta T)^2}{(\rho \Delta C \Delta T')^2}} = \Delta x_c \sqrt{1 - \frac{\Delta M_0^2}{\Delta M_{Total}^2}},$$

$$\rho = 1 \,(density; \ scalar \ field)$$

Since position is irrelevant, the following diagram illustrates two other possibilities:

1. the Galaxies and photons continue on without interacting (shown by solid red lines)
2. the Galaxies and photons merge (are observed), (shown by the solid blue line))

Here all the action is at the center, but nothing is destroyed ("observed"). In the second case the photons and Galaxies are "glued" together by gravitation (since they accelerate to v/c=0).
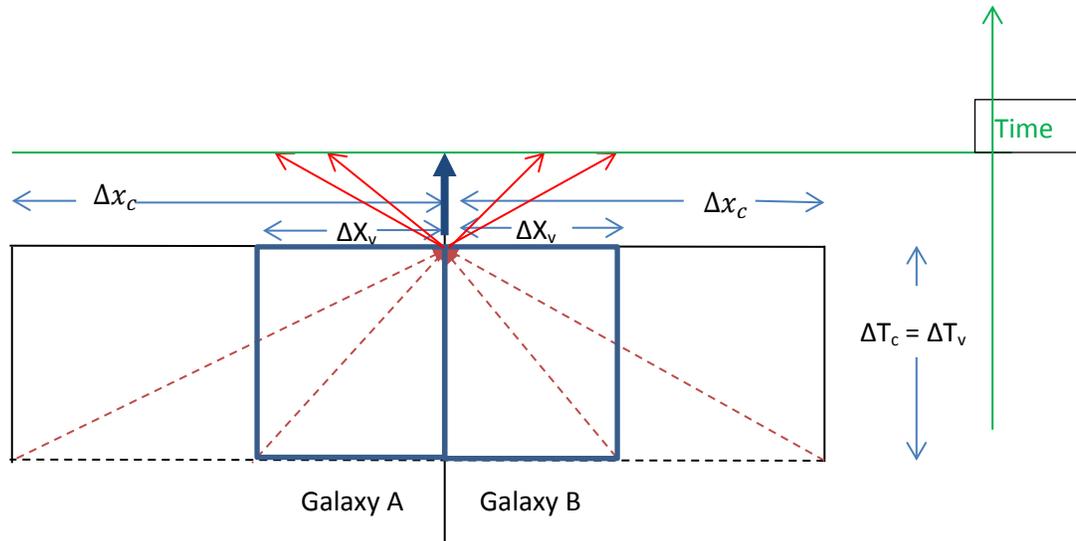
There is much more to be said about this model…….