$$\text{spacetime vector} \quad = \quad (c\Delta t,\, \Delta x,\, \Delta y,\, \Delta z)$$

$$\text{STI} \quad = \quad \sqrt{(c\Delta t)^2 - (\Delta x)^2}$$

$$\frac{\text{STI}}{c} \quad = \quad \sqrt{(\Delta t)^2 - (\frac{\Delta x}{c})^2}$$

$$\text{momentum} - \text{energy vector} \quad = \quad (E,\, p_x,\, p_y,\, p_z)$$

$$\text{ME} \quad = \quad \sqrt{E^2 - p^2 c^2}$$

$$\frac{\text{ME}}{c} \quad = \quad \sqrt{\left(\frac{E^2}{c^2}\right) - p^2}$$

$$\frac{\text{ME}}{c^2} \quad = \quad \sqrt{\left(\frac{E^2}{c^4}\right) - \left(\frac{p^2}{c^2}\right)}$$