84-1

1. 活作成多换:

$$\chi' = \frac{\chi - ut}{\sqrt{1 - \left(\frac{u}{c}\right)^2}}$$

$$\begin{cases} y' = y \\ \frac{u'}{c} = \frac{t - \frac{ux}{c^2}}{\sqrt{1 - \left(\frac{u}{c}\right)^2}} \end{cases}$$

$$\beta$$
 if $\beta = \frac{4}{c}$

2. 时间处境: 指从长字中双字片分中"时间间隙"校奏
$$t = t_1 - t_1' = \frac{t_2 - \frac{u_2'}{C^2}}{\sqrt{1-\Omega^2}} - \frac{t_1 - \frac{u_2'}{C^2}}{\sqrt{1-\Omega^2}} = \frac{\Delta t}{\sqrt{1-\Omega^2}}$$

3. 长度收缩: 在长年对长条中物位两端同时附生的

$$\chi_1 = \frac{\chi_1' + ut'}{\int I - \beta^2}$$

$$\chi_2 = \frac{\chi_2' + ut'}{\int I - \beta^2}$$

$$\ell = o \chi' = \frac{\ell'}{\int 1 - \beta^2} \implies \ell' = \ell \cdot \sqrt{1 - \beta^2}$$

84-2 机对论连度变换

在水分中 連及春せか:

$$U_x = \frac{dx}{dt}$$
. $U_y = \frac{dy}{dt}$. $V_z = \frac{dz}{dt}$

$$\langle c' \phi : v_x' = \frac{d x^0}{d t^0}, \quad v_y' = \frac{d y'}{d t'}, \quad v_z' = \frac{d z'}{d t'}$$

$$x dx' = \frac{1}{\sqrt{1-\beta^2}} d(x-ut)$$

$$= \frac{1}{\sqrt{1-\beta^2}} (dx-udt)$$

$$dt' = \frac{1}{\sqrt{1-\beta^2}} \left(dt - \frac{u}{c^2} dx \right)$$

$$\text{That } F \stackrel{\text{if}}{=} \frac{V_{X-} u}{1 - \frac{u}{c^2} V_X} = \frac{\text{i in times}}{\text{i in i in $i$$

送取一个分适的生标各位关键的·eg:

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· tratic为这基本方理:

$$\vec{F} = \frac{d}{dt} \left(\frac{m_0}{\int I - \left(\frac{\sigma}{c} \right)^2} \vec{v} \right)$$

2.
$$E = mc^{2} \frac{1}{2} \frac{1}{2} \frac{1}{2}$$

$$E_{0} = m_{0}c^{2} \frac{1}{2} \frac$$