## Derivacion Ecuacion de Einstein

Saturday, October 17, 2020 3:12 AM

$$k = \int \frac{dP}{dt} dx \qquad p = \frac{m_0 v}{(1 - \beta^2)^{\frac{1}{2}}}.$$

$$k = \int_{6}^{4} \frac{d\rho}{dt} dx \qquad | P = 8m \cdot v$$

, Que es quel

$$\frac{d\rho}{dt} dx = \frac{dx}{dt} d\rho - v d\rho \quad ; \quad \frac{d\rho}{dv} = f + d\rho = f dv$$

¿Que () f?

## Derivar gamma

Saturday, October 17, 2020 3:18 AM
$$\lambda = (1 - \beta^{2})^{\frac{1}{2}}; \beta = \frac{1}{2} \left(1 - \beta^{2}\right)^{\frac{1}{2}} = -\frac{1}{2(1 - \beta^{2})^{\frac{1}{2}}} (-2\beta)^{\frac{1}{2}}$$

$$\lambda = (1 - \beta^{2})^{\frac{1}{2}}; \beta = \frac{1}{2(1 - \beta^{2})^{\frac{1}{2}}} (-2\beta)^{\frac{1}{2}}$$

$$\frac{\partial \delta}{\partial v} = \frac{\beta}{(1-\beta^2)^{3/2}} \quad \frac{\partial}{\partial v} = M \cdot \delta + M_0 \cdot V \cdot \frac{\partial}{\partial v} = M_0 \cdot \delta \left(1+\frac{\beta^2}{(1-\beta^2)^3}\right)$$

$$\frac{\beta}{c} = \frac{V}{c^2} \quad \frac{1}{(1-\beta^2)^{3/2}} \quad \frac{1}{(1-\beta^2)^{3/2}} \quad \frac{V \cdot V}{(1-\beta^2)^{3/2}} = \beta^2$$

$$K = \int \frac{m_0 v \, dv}{(1 - \beta^2)^{3/2}} \, \left| \frac{v}{c} = \beta \right| = m_0 \int \frac{c^2 \beta}{(1 - \beta^2)^{3/2}}$$

 $\beta_f = \frac{\sqrt{f}}{\sqrt{f}}$  $k = m_0^{\frac{1}{2}} \frac{c^2 \beta}{(1-\beta^2)^{\frac{1}{2}}}$  | Salvemos que la interior de dv } en la integral vino de dv } una denvada

$$\frac{dp}{dv}$$

Podemos notar
$$\frac{d}{d\beta} \left[ \frac{1}{(1-\beta^2)^{1/2}} \right] = \frac{-1}{2} \left( 1-\beta^2 \right)^2 \cdot \left( -2\beta \right) = \frac{\beta}{(1-\beta^2)^{3/2}}$$

$$\int \frac{d}{d\beta} \left[ 8 \right] d\beta = \int \frac{\beta}{(1-\beta^2)^{3/2}} d\beta = \int d\beta = \frac{1}{(1-\frac{\nu^2}{c^2})^{3/2}} \int_0^{\nu_{\beta}} \frac{5e}{\text{circle de liquales gyrns}} \int_0^{\nu_{\beta}} \frac{5e}{\text{circle de l$$

$$|K = E - E_0| \rightarrow E = K + E_0$$