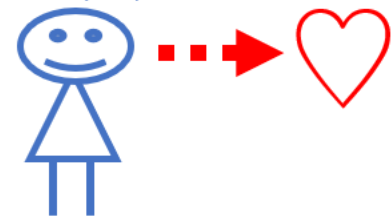


Case(1)

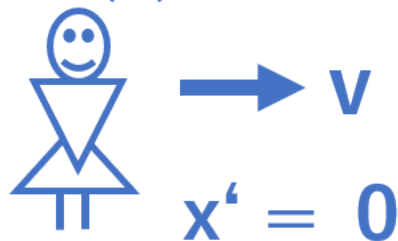
$$x = 0$$

A(0)

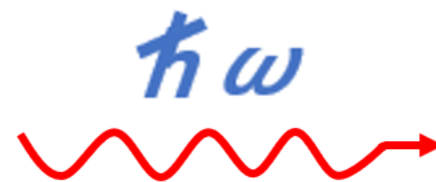


$$x = v t$$

B(v)



$$x = c t$$



$$x' = c t'$$

(1)

$$\begin{aligned} x' &= \alpha t + \beta x \\ t' &= \gamma t + \delta x \end{aligned}$$

(2)

case A(0)B(v)

$$\begin{aligned} 0 &= \alpha t + \beta v t \\ t' &= \gamma t + \delta v t \end{aligned}$$

(3)

$$\alpha = -\beta v$$

(4)

$$\begin{aligned} x' &= \beta (x - v t) \\ t' &= \gamma t + \delta x \end{aligned}$$

(5) $x = c t$ $x' = c t'$

$$\begin{aligned} c t' &= \beta (c t - v t) \\ t' &= \gamma t + \delta c t \end{aligned}$$

(6)

$$\begin{aligned} (1 - v/c) \beta &= (\gamma + \delta c) \end{aligned}$$