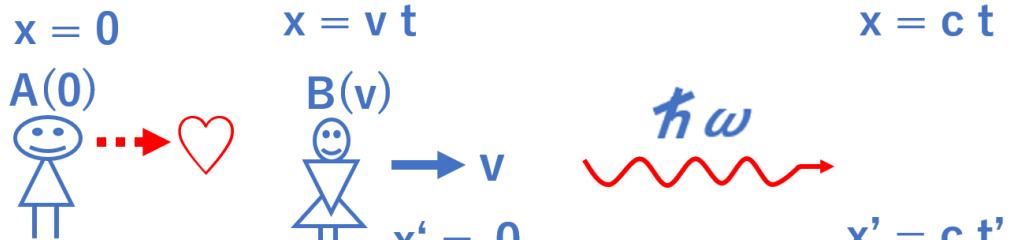
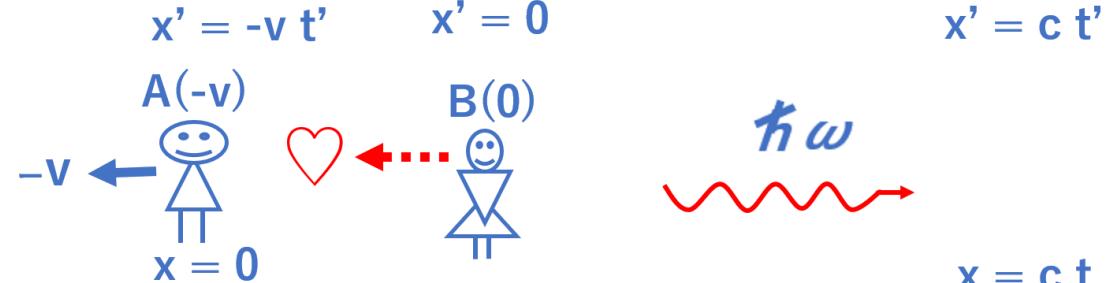


中学の数学で解ける特殊相対性理論

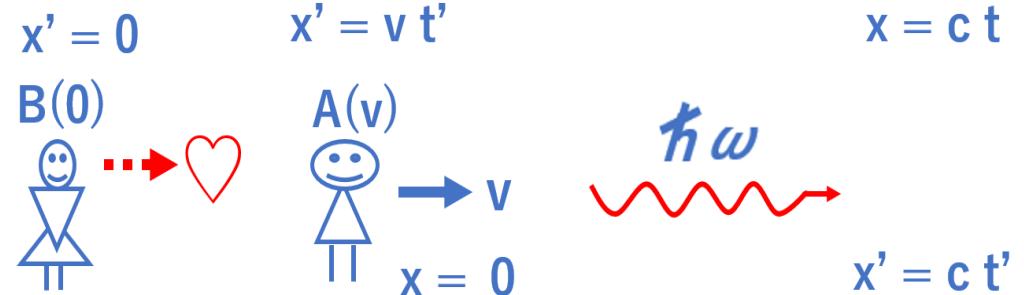
Case(1)



Case(2)



Case(3)



(10)

$$x' = \beta (x - vt)$$

$$t' = \beta (t - vx/c^2)$$

(12)

$$x = \beta (x' + vt')$$

$$t = \beta (t' + vx'/c^2)$$

For Case(3) event only,
not valid for Case (1) and (2)

(11)

$$x' = \beta (x + vt)$$

$$t' = \beta (t + vx/c^2)$$

(13)

$$\beta = \frac{1}{\sqrt{1 - v^2/c^2}}$$