





- ▶ Mostra che esiste un sistema di riferimento S¹in cui i due eventi avvengono nello stesso istante.
- ▶ Calcola la loro distanza spaziale in S.

$$[8,0 \text{ m}]$$

S.R.
$$S$$

 $X_1 = 1,8 \, \text{m}$ $X_2 = 9,9 \, \text{m}$
 $X_1 = 18 \, \text{m}$ $X_2 = 22 \, \text{m}$

$$\Delta \sigma^{2} = (c \Delta t)^{2} - \Delta s^{2} = c^{2} \Delta t^{2} - \Delta s^{2} = c^{2} (t_{2} - t_{4})^{2} - (x_{2} - x_{4})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} - (8.1 \text{ m})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} - (8.1 \text{ m})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} - (8.1 \text{ m})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} - (8.1 \text{ m})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} - (8.1 \text{ m})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} - (8.1 \text{ m})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} - (8.1 \text{ m})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} - (8.1 \text{ m})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} - (8.1 \text{ m})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} - (8.1 \text{ m})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} - (8.1 \text{ m})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} - (8.1 \text{ m})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} (4 \times 10^{-3} \text{ s})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2} = (3.0 \times 10^{8} \frac{m}{3})^{2$$

$$= 1,44 \text{ m}^2 - 65,61 \text{ m}^2 = -64,17 \text{ m}^2 < 0$$
 TIPO SPAZIO

$$\Delta \sigma^2 = \Delta \sigma' = -\Delta S'$$
 feeche $\Delta t = 0$,

energy numbers

$$-64,17 m^2 = -\Delta S^{12} \implies \Delta S^1 = \sqrt{64,17} m = 8,0106... m$$

~ 8,0 m