



I showed in class for the UNROTATED case,

$$t_1 = \frac{2L}{c} \left(1 - \frac{v^2}{c^2}\right)^{-1}$$

$$t_2 = \frac{2L}{c} \left(1 - \frac{v^2}{c^2}\right)^{-1/2}$$

$$\Delta t = t_1 - t_2 = \frac{2L}{c} \left[ \left(1 - \frac{v^2}{c^2}\right)^{-1} - \left(1 - \frac{v^2}{c^2}\right)^{-1/2} \right]$$

using the Binomial Expansion for

$$\frac{v^2}{c^2} \ll 1$$

$$\boxed{\Delta t = t_1 - t_2 = \frac{Lv^2}{c^3}}$$

For the ROTATED system

$$t_{1, \text{rotated}} = \frac{2L}{c} \left(1 - \frac{v^2}{c^2}\right)^{-1/2}$$

$$t_{2, \text{rotated}} = \frac{2L}{c} \left(1 - \frac{v^2}{c^2}\right)^{-1}$$

$$\Delta t_{\text{rotated}} = t_{1, \text{rotated}} - t_{2, \text{rotated}}$$

$$= \frac{2L}{c} \left[ \left(1 - \frac{v^2}{c^2}\right)^{-1/2} - \left(1 - \frac{v^2}{c^2}\right)^{-1} \right]$$

Again using  $\frac{v^2}{c^2} \ll 1$

$$\boxed{\Delta t_{\text{rotated}} = t_{1, r} - t_{2, r} = -\frac{Lv^2}{c^3}}$$

THE TOTAL TIME DIFFERENCE BETWEEN THE TWO CASES IS  $\Delta t_{\text{TOT}} = \Delta t - \Delta t_{\text{rotated}}$

$$= \frac{Lv^2}{c^3} - \left(-\frac{Lv^2}{c^3}\right)$$

$$\boxed{\Delta t_{\text{TOT}} = \frac{2Lv^2}{c^3}}$$

$$\Delta \phi_{\text{TOT}} = c \Delta t$$

$$\boxed{\Delta \phi_{\text{TOT}} = \frac{2Lv^2}{c^2}}$$

B) THE SHIFT OF ONE FRINGE CORRESPONDS TO ONE WAVELENGTH.

$$\rightarrow 1 \text{ FRINGE} = 1 \lambda$$

THEREFORE THE SHIFT PER FRINGE AFTER ROTATION OF THE MICHLESON-MORLEY INTERFEROMETER IS

$$\boxed{\text{SHIFT} = \frac{\Delta \phi}{1 \text{ FRINGE}} = \frac{\Delta \phi}{\lambda} = \frac{2Lv^2}{\lambda c^2}}$$

# Modern Physics Serway 2nd Edition Solution Manual

**Henry W. Leap**



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