

Figure showing bright fringes in Young's double slit experiment.

Given:

Distance between the slits (d) = 0.28 mm

Distance between the slits and the screen (D) = 1.4 m

Distance between the central bright fringe and fourth bright fringe $(y_n) = 1.2$ cm where n is the order of the fringe, here, n = 4

λ = Wavelength of light used

From the formula,

$$\frac{dy_n}{D} = m\lambda.$$

$$\Rightarrow \frac{0.28 \times 10^{-3} \text{ m}}{\left(\frac{1.2 \times 10^{-2} \text{ m}}{1.4 \text{ m}}\right)} = 4\lambda.$$

$$\lambda = 142.8 \text{ nm}$$

Hence, the wavelength of light used is 142.8 nm.

In Young's double-slit experiment using monochromatic light of wavelength λ, the
intensity of light at a point on the screen where path difference is λ, is K units. What is
the intensity of light at a point where path difference is λ/3?

L Cohen

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