

$$\Rightarrow \left(\frac{d \cdot y_m}{D} \right) = \pm (2m-1) \frac{\lambda}{2} \Rightarrow y_m = \pm \frac{(2m-1)\lambda D}{2d} \dots\dots\dots(6)$$

Y_m is distance of m^{th} minima from the center of screen.

For $m = 1$, By equation (6) $y'_1 = \pm \frac{\lambda D}{2d}$

i.e. the 1st order minima lies on either side of the central maxima at a distance $\lambda D/2d$ from the center of the screen

For $m = 2$, By equation (4), $y'_2 = \pm \frac{3\lambda D}{2d}$

i.e. the 2nd order minima lie on either side of the central maxima at a distance $3\lambda D/2d$ from the center of the screen.

Similarly For $m = 3$, By equation (4) $y'_3 = \pm \frac{5\lambda D}{2d}$

Width of a bright band i.e. the distance between two consecutive minima

$$\beta = y'_m - y'_{m-1}$$