$\Gamma = n\lambda$

Constructive maxima

$(n+\frac{1}{2})$ for destructive minima

highest order

$n_{max} = \frac{d}{\lambda}$

# of fringes

$2n_{max}+1$

$d\sin\theta = n\lambda$

screen is parallel to slits

2 beams of light are approx. parallel

$L \gg d$

$d\left(\frac{y}{L}\right) \approx n\lambda$

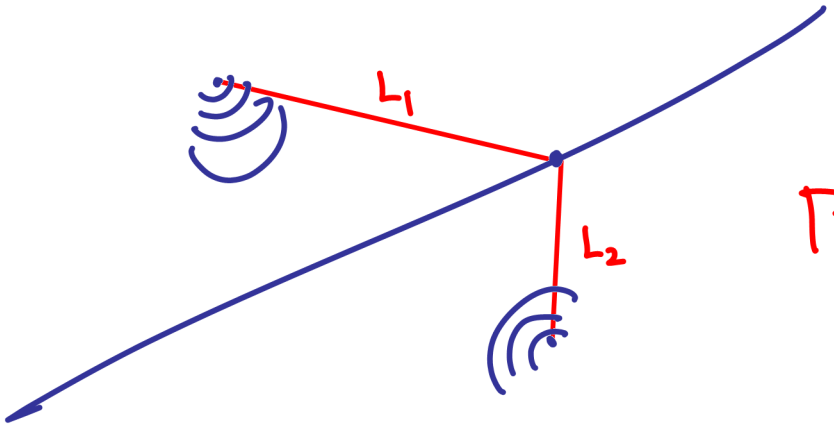
Small angle approximation

$\sin\theta \approx \tan\theta \rightarrow \sin\theta \approx \frac{y}{L}$

$y_n \approx n\frac{\lambda L}{d}$

$\Delta y \approx \frac{\lambda L}{d}$

$\lambda \approx \frac{d\Delta y}{L}$



$\Gamma = |L_1 - L_2| = ???$