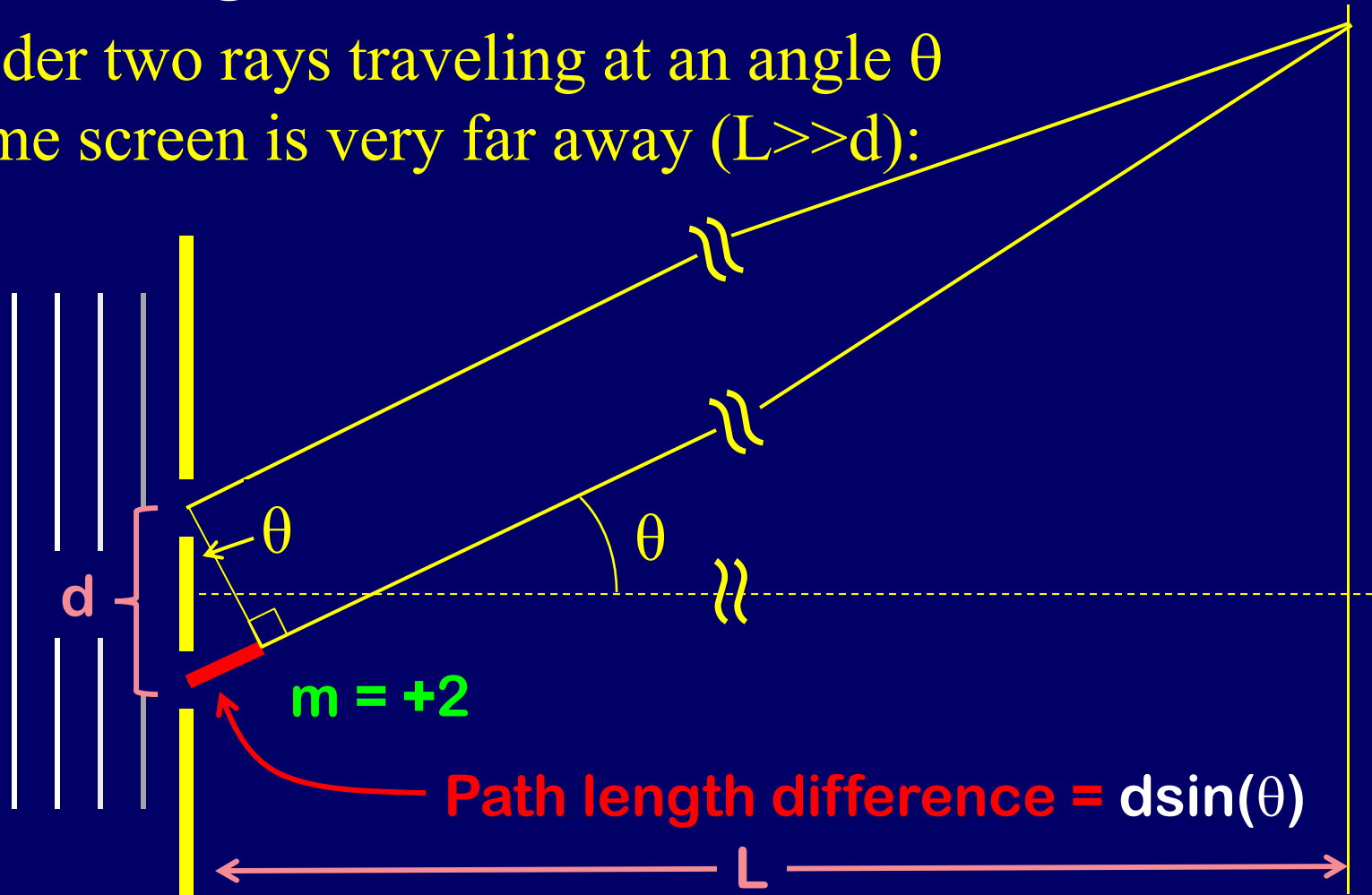


Young's double slit: Quantitative

Consider two rays traveling at an angle θ

Assume screen is very far away ($L \gg d$):



Constructive: $d \sin(\theta) = m\lambda$

where $m = 0, \pm 1, \pm 2$

Destructive: $d \sin(\theta) = (m + 1/2)\lambda$

Need $\lambda < d$