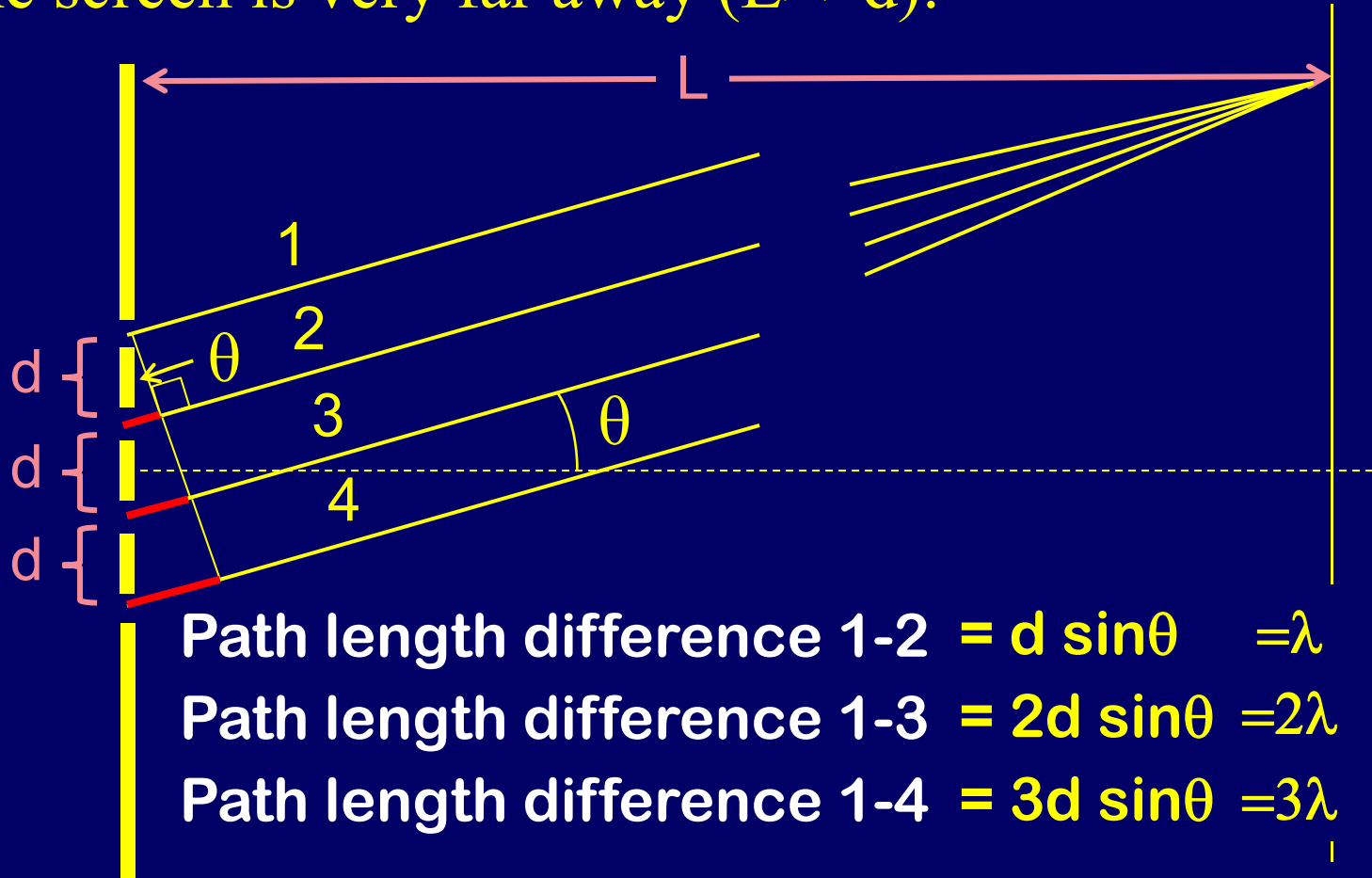


Multiple Slits:

(Diffraction Grating – N slits with spacing d)

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



Constructive interference for all paths when

$$d \sin(\theta) = m \lambda \quad m = 0, \pm 1, \pm 2$$