

Multiple Slit Interference (Diffraction Grating)

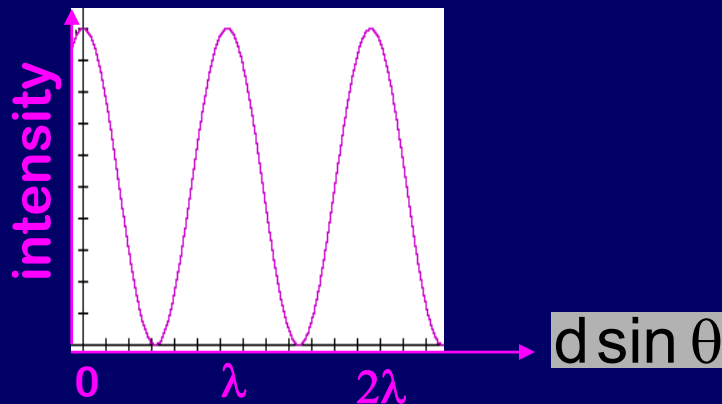
For many slits, maxima are still at

$$\sin \theta = m \frac{\lambda}{d}$$

Peak location
depends on
wavelength!

Region between maxima gets suppressed more and more as no. of slits increases – bright fringes become narrower and brighter.

2 slits (N=2)



10 slits (N=10)

