

Recap

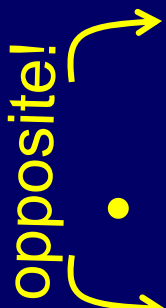
- **Interference: Coherent waves**

- Full wavelength difference = Constructive
- $\frac{1}{2}$ wavelength difference = Destructive

- **Multiple Slits**

- Constructive $d \sin(\theta) = m \lambda$ ($m=1,2,3\dots$)
- Destructive $d \sin(\theta) = (m + 1/2) \lambda$ **2 slit only**
- More slits = brighter max, darker mins

opposite!



- **Single Slit:**

- Destructive: $w \sin(\theta) = m \lambda$ ($m=1,2,3\dots$)
- Resolution: Max from 1 at Min from 2