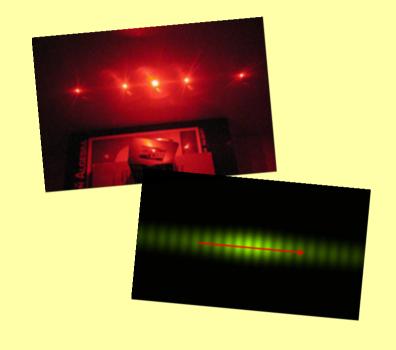
## **Double-Slit**Interference



## Objectives:

- Draw & label diagrams of double-slit interference
- Apply interference equations to double-slit and diffraction grating interference
- Decide when the small angle approximation can be used

Particle Nature	Wave Nature
<ul> <li>original Greek theory</li> <li>supported by Newton (1687)</li> <li>reflection &amp; refraction</li> </ul>	- proposed by Huygens (1678) - proved by interference (Thomas Young - 1801) - Doppler Effect observed (Fizeau - 1849) - EM nature proposed (James Maxwell - 1865) - EM nature produced (Heinrich Hertz - 1887)

