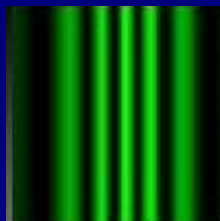


Double-slit interference

Light (wavelength λ) is incident on a two-slit (two narrow, rectangular openings) apparatus:

If either one of the slits is closed, a spread-out image of the open slit will appear on the screen. (The image is spread due to **diffraction**. We will discuss diffraction in more detail later.)

If both slits are open, we see interference “fringes” (light and dark bands), corresponding to constructive and destructive **interference** of the wave passing through the two slits.



Note: In the laser demo, there is little vertical spread, because the laser spot is small in that direction.

