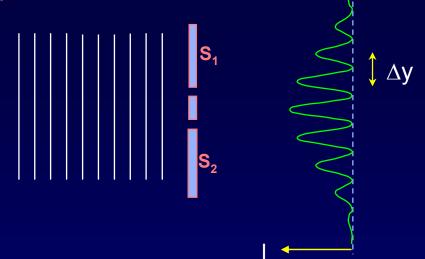
Solution

A laser of wavelength 633 nm is incident on two slits separated by 0.125 mm.



- 1. If we increase the spacing between the slits, what will happen to Δy ?
 - a. decrease
- b. stay the same
- c. increase

 $\Delta y \propto 1/d$, so it decreases. This is a general phenomenon: the more spread out the sources are, the narrower the interference pattern is.

- 2. If we instead use a green laser (smaller λ), Δy will?
 - a. decrease
- b. stay the same
- c. increase