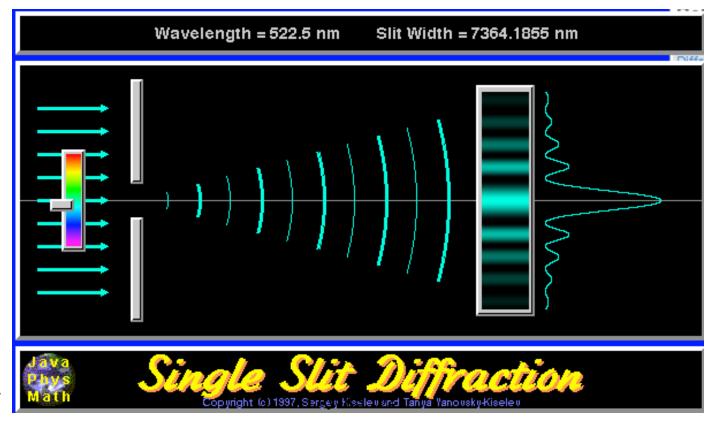
If I make the slit wider what will happen to the pattern?

1. Get wider

- 3. Stay the same
- Get narrower 4. Something else

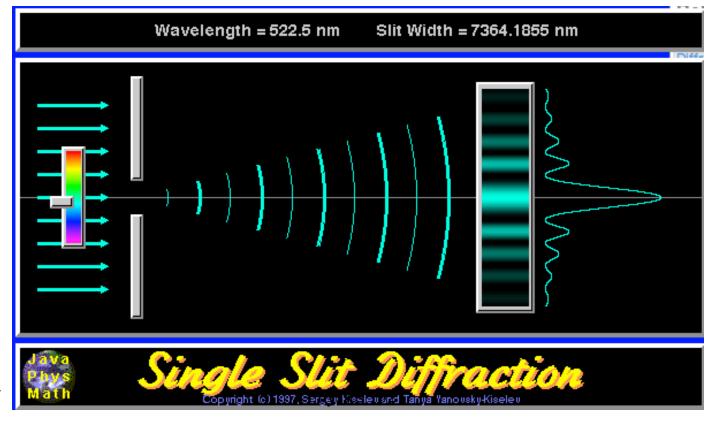




If I make the wavelength longer what will happen to the pattern?

1. Get wider

- 3. Stay the same
- Get narrower 4. Something else



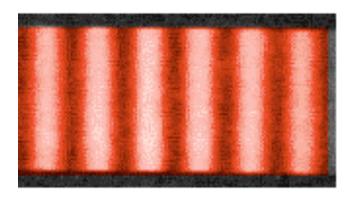


What if we have two slits and move them closer together. What will happen to the pattern?



1. Get wider

- 3. Stay the same
- 2. Get narrower 4. Something else



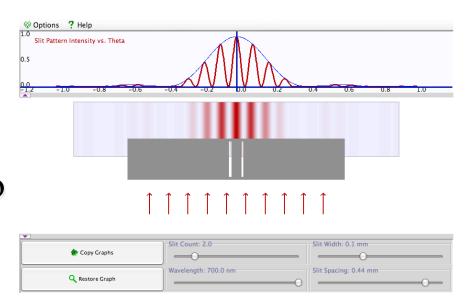
What can I do to keep the envelope the same but get more fringes squeezed into it?



- 1. Make the slits wider
- 2. Make the slits narrower
- 3. Make the slits farther apart
- 4. Make the slits closer together

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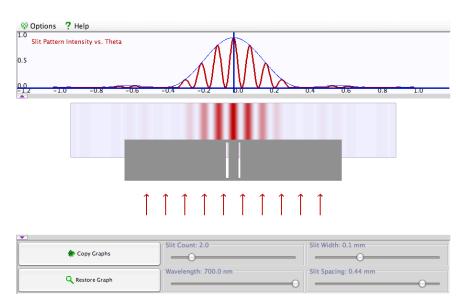
5. Nothing you can do to the slits will do this.

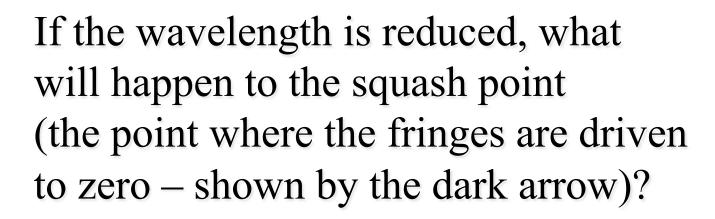




If the wavelength is decreased, what will happen to the fringes (narrow peaks shown in red)?

- A. Fringes get wider
- B. Fringes get narrower
- c. Fringes stay the same
- D. Something else



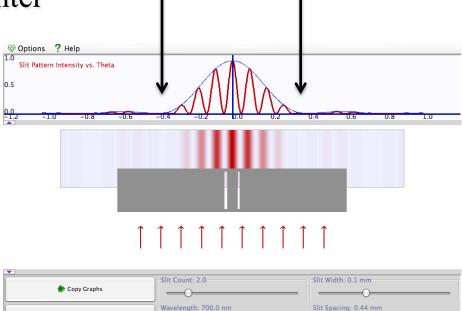




- A. Move toward the center
- B. Move away from the center
- C. Stay the same

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D. Something else



Q Restore Graph

When a laser is shone upon a double slit, a close-up of the center of the pattern looks like the figure at the right. If one of the slits is covered (the left one) but the other slit remains open, what will this part of the pattern look like?



- A. The same.
- B. The left side will be dark.
- C. The right side will be dark.
- D. The whole thing will be bright.
- E. The whole thing will be bright except for two dark bands at either side.
- F. Something else.

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When a laser is shone upon a double slit, a close-up of the center of the pattern looks like the figure at the right. If a filter is put in front of one of the slits (the left one) that reduces the intensity of the light from that slit by ½ what will this part of the pattern look like?

