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Suppose you have light going through two crossed polarizers. What will happen if a third polarizer is placed in between the two with polarization angle of 45°?

- A) nothing will change
- B) the transmitted light will decrease
- C) the transmitted light will increase
- D) the transmitted light will go to zero
- С

Clicker Question 1

В

- In a two slit interference experiment, how does the separation between peaks in the interference pattern change if the distance between slits is increased?
- A. Increase
- B. Decrease
- C. Stays the same
- D. Indeterminate

6









Clicker question 3

Laser light with a wavelength of 0.5 μ m is passed through a slit with a width a= 0.5 mm (1000 times larger than λ). The first minimum in the diffraction pattern seen on a wall far away will occur at an angle of about _____.

A) 10⁻² radian B) 10⁻³radian

- C) 10^{-4} radian
- D) 10⁻⁵ radian

В























Clicker Question 2

The reason a laser beam is highly collimated is due to .

В

- A) a population inversion
- B) reflection from mirrors
- C) focusing by lenses
- D) atomic excitations

6







Clicker question 4

Two light nuclei come together and fuse forming a larger nucleus. The mass of the product nucleus is less than the mass of the original nuclei. In this reaction _____

А

- A. energy is released
- B. energy is taken up
- C. energy is unchanged

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