

We have a sample of Cesium metal

An intense beam of blue light strikes the surface of the metal and electrons are emitted. These photoelectrons all have kinetic energy  $K$ .

An dim beam of blue light strikes the surface of the metal. The photoelectrons' kinetic energy is:

1.  $K$  *100%*
2. Less than  $K$
3. Greater than  $K$

We have a sample of Cesium metal

An dim beam of blue light strikes the surface of the metal and electrons are emitted. These photoelectrons all have kinetic energy  $K$ .

An dim beam of violet light strikes the surface of the metal. The photoelectrons' kinetic energy is:

1.  $K$
2. Less than  $K$
3. Greater than  $K$  *100%*

## Light is:

1. A wave
  2. A particle
  3. All of the above
  4. None of the above
- } split

## You are doing the double-slit experiment for electrons.

You see an interference pattern on the screen. At the slits each individual electron:

1. Is either going through the upper slit or through the lower slit. *few*
2. Is going through both slits at once.
3. Only partially exists.
4. All of the above.
5. None of the above. *} few*