

## We have a sample of Cesium metal

An intense beam of blue light strikes the surface of the metal and lots of electrons are emitted.

A dim beam of blue light strikes the surface of the metal and some but fewer electrons are emitted.

These facts were known before 1900. Were they a surprise to physicists?

1. Yes.  $\frac{1}{3}$
2. No.  $\frac{2}{3}$

## We have a sample of Cesium metal

An intense beam of blue light strikes the surface of the metal and electrons are emitted.

A dim beam of red light strikes the surface of the metal but no electrons are emitted.

From these facts alone we may conclude that:

1. The intensity of the light determines whether electrons will be emitted. *few*
2. The color of the light determines whether electrons will be emitted.  $\circ$
3. Both of the above may be true. *most*
4. None of the above. *few*

We have a sample of Cesium metal

An intense beam of blue light strikes the surface of the metal and electrons are emitted.

An equally intense beam of red light strikes the surface of the metal but no electrons are emitted.

From these facts we may conclude that:

1. The intensity of the light determines whether electrons will be emitted.
2. The color of the light determines whether electrons will be emitted. *100%*
3. Both of the above may be true.
4. None of the above.