

20. We use Eq. 39-5 to find the maximum kinetic energy of the ejected electrons:

$$K_{\max} = hf - \Phi = (4.14 \times 10^{-15} \text{ eV}\cdot\text{s})(3.0 \times 10^{15} \text{ Hz}) - 2.3 \text{ eV} = 10 \text{ eV} .$$