

# Results and Errors

- $h = (6.348 \pm 0.0626) \cdot 10^{-34} \text{ J} \cdot \text{s}$ 
  - ▶  $\approx 4.2\%$  off of true value ( $\approx 4.5$  times estimated error)
- $\phi = 1.76 \pm 0.026 \text{ eV}$ 
  - ▶  $\approx 23\%$  off of true value ( $\approx 21$  times estimated error)
- Random Errors
  - ▶ Precision of instruments
  - ▶ Small compared to...
- Systematic Errors
  - ▶ Ambient light
  - ▶ Light striking the anode
  - ▶ Cutoff voltage bias
  - ▶ Variation of  $\phi$
- Various possibilities for systematics, but probably not due to measurement error
- Disparity in error makes some possibilities less likely