

Scientific Notation

Physics II: Modern Physics

College of the Atlantic

Scientific Notation

- Convert the following numbers to scientific notation:
 - 10000
 - 0.0004
 - 123000000
- Express the following quantities in scientific notation:
 - 300 million
 - 2.4 billion
- Express the following quantities in non-scientific notation:
 - 6.13×10^5
 - 4.3×10^{-3}
- Calculate the following, first without, and then with a calculator.
 - $(4 \times 10^6) \times (5 \times 10^3)$
 - $(10 \times 10^3) \times (5 \times 10^{-5})$
 - $\frac{30 \times 10^9}{200 \times 10^6}$
- Evaluate the following using a calculator:

$$\frac{4\pi}{\sqrt{3000 \times 2.2 \times 10^{-10}}} \quad (1)$$

$$9.1 \times 10^{-31} (300 \times 10^6)^2 \quad (2)$$