Due Wednesday November 13, 2:45 pm.


**Problem 1.** Eating blueberry pancakes with a skewer. Problem 14.1* from the textbook.

**Problem 2.** Shooting at liquid hydrogen. Problem 14.3* from the textbook. *Hint: the mass of a Hydrogen atom is \( m_H = 1.66 \times 10^{-27} \text{kg} \).

**Problem 3.** Which is bigger: the sun or the moon? Problem 14.7* from the textbook.

**Problem 4.** Scattering in 2 dimensions. Problem 14.14** from the textbook.

**Problem 5.** Test of the \( Z \) dependence. Problem 14.17* from the textbook.

**Problem 6.** Scattering in a central force field. Problem 14.20** from the textbook.

**Problem 7.** Scattering in a Coulomb field. Problem 14.22** from the textbook.