

Homework #4: More Practice

1. (Fermi Problem) Without looking, estimate the number of hairs on your scalp (not counting eyebrows and facial hair).
2. Do Ford, E2.23(b) as a Fermi Problem.
3. In HW Set 2, you calculated how small the volume of a nucleus is compared to the volume of an atom. How small is the volume of the sun compared to the volume of the solar system? (Use 100 AU as the radius of the solar system.) This is not a Fermi Problem – you can look stuff up.
4. Ford, E2.2
5. Ford, E2.11
6. Ford, E2.25
7. Ford, E3.8

Due: Wednesday, September 23, 10:00 am