

## Physics 596 – Fall 2021

### Fermi Problems #4

**Solve, as a group, the following Fermi problems:** No handbooks, calculators, or computers allowed!

(1). Estimate how fast human hair grows in miles/hour (how's that for quirky!).

(2). Estimate the number of leaves on a tree.

(3). Estimate the weight of Mt. Everest (height  $\sim 29,000$  ft). [Density of granite =  $2.75 \text{ g/cm}^3$  and  $1 \text{ kg} = 2.2 \text{ lbs}$ ]