

Figure 9.1. Schematic description of the random walk of a particle along a straight line. The pyramid shows the probabilities of a molecule reaching position m ($x = -6, -5, \dots, 0, \dots, 5, 6$) along the x axis after n equal steps of distance $\Delta x = 1$. At each step the probability of moving forward or backward is equal. Fractions represent the probability of a particle reaching that location starting from $x = 0$, $t = 0$. The dashed line is the least probable path and the solid line represents the most probable paths (see text).

