Final Assignment: Evolution

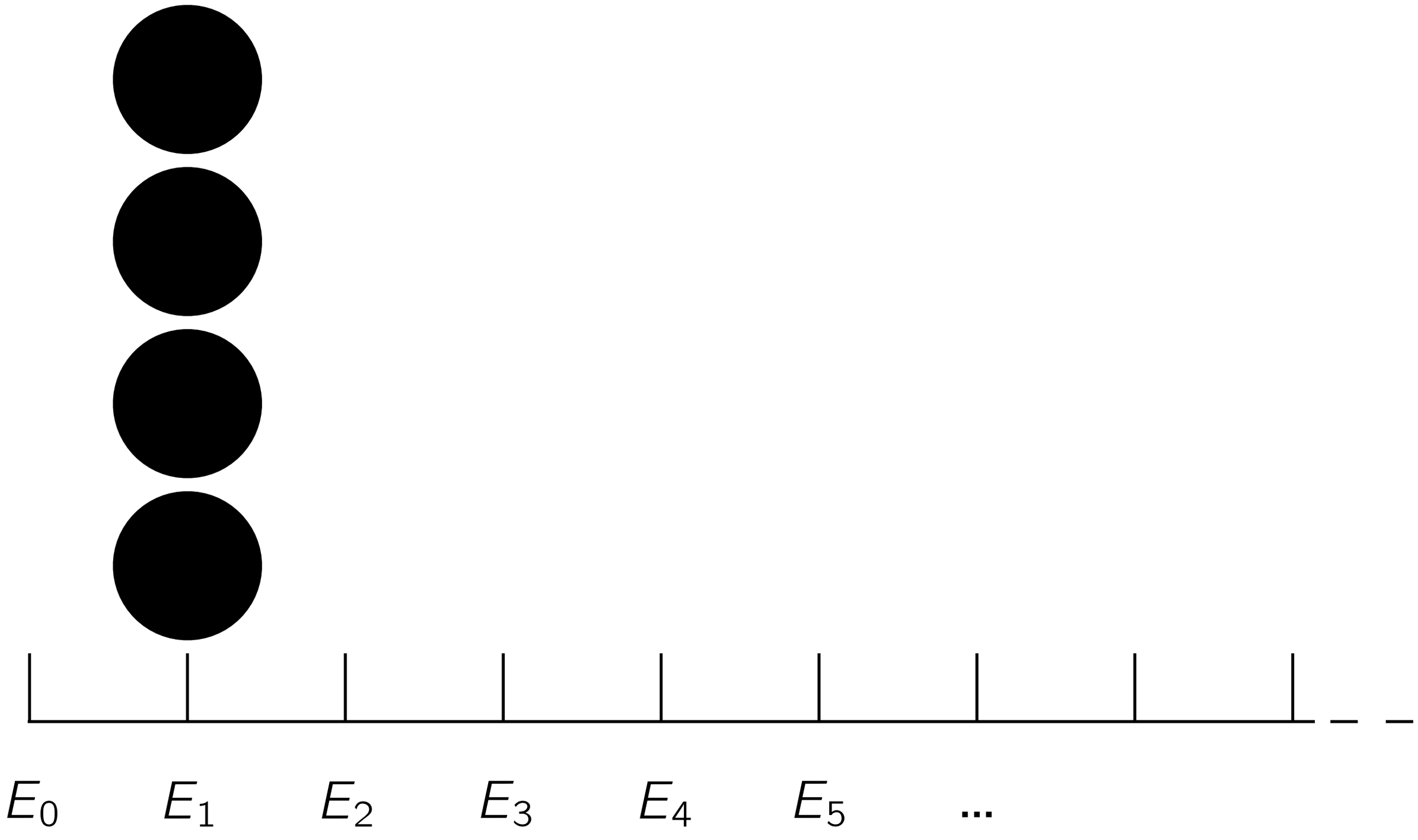
1. We start with all particles at the **same initial energy** $E_1=E_0+\Delta E$

2. At every step, we **randomly select** a **first** particle and a **second** particle. If the first particle is not on the ground state

    a. we move the **first** particle **down** by one energy level

    b. We move the **second** particle **up** by one energy level

3. This energy exchange keeps the **total energy fixed**.



$$E_{n+1} - E_n = \Delta E = E_0$$