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PART 2

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$$\frac{dN}{N} = 4\pi v^2 \times \left(\frac{m}{2\pi kT}\right)^{3/2} \times e^{-\frac{1}{2}mv^2/kT} \, dV$$

$$\frac{dN/N}{dV} = f(v) = 4\pi v^2 \times \left(\frac{m}{2\pi kT}\right)^{3/2} \times e^{-\frac{1}{2}mv^2/kT}$$

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