

Theorem depripartition de l'énergie

Dans on système à T, pour du particules à n degres de liberto, dont l'énergie en  $E = \frac{1}{12} \lambda_1 q_1 E$  Alors.  $\langle E \rangle = n \langle \frac{1}{2} \lambda_2 q_2 \rangle = n \frac{k_B T}{2}$ Le doit =  $\frac{1}{2} e^{-pE}$  day, =  $\frac{1}{2} \frac{11}{11} \left( e^{-pE} dq_1 \right)$ , donc  $Z = \int_{122}^{12} e^{-pE} dq_2$ .  $\langle E_3 \rangle = \langle \frac{1}{2} \lambda_3 q_3^2 \rangle = \int_{123}^{123} dq_3 = \int_{123}^{123} e^{-pE} dq_4$ .  $\langle E_3 \rangle = \langle \frac{1}{2} \lambda_3 q_3^2 \rangle = \int_{123}^{123} dq_3 = \int_{123}^{123} e^{-pE} dq_4$ .  $\int_{123}^{123} e^{-pE} dq_4 = 2 \int_{123}^{123} e^{-pE} dq_4 = \int_{123}^{123} e^{-pE} dq_4$ .  $\int_{123}^{123} e^{-pE} dq_4 = 2 \int_{123}^{123} e^{-pE} dq_4 = \int_{123}^{123} e^{-pE} dq_4$ .  $\int_{123}^{123} e^{-pE} dq_4 = 2 \int_{123}^{123} e^{-pE} dq_4 = \int_{123}^{123} e^{-pE} dq_4$ .  $\int_{123}^{123} e^{-pE} dq_4 = 2 \int_{123}^{123} e^{-pE} dq_4$ .  $\int_{123}^{123} e^{-pE} dq_4 = 2 \int_{123}^{123} e^{-pE} dq_4$ .  $\int_{123}^{123} e^{-pE} dq_4 = 2 \int_{123}^{123} e^{-pE} dq_4$ .  $\int_{123}^{123} e^{-pE} dq_4 = 2 \int_{123}^{123} e^{-pE} dq_4$ .  $\int_{123}^{123} e^{-pE} dq_4 = 2 \int_{123}^{123} e^{-pE} dq_4$ .  $\int_{123}^{123} e^{-pE} dq_4 = 2 \int_{123}^{123} e^{-pE} dq_4$ .  $\int_{123}^{123} e^{-pE} dq_4 = 2 \int_{123}^{123} e^{-pE} dq_4$ .  $\int_{123}^{123} e^{-pE} dq_4 = 2 \int_{123}^{123} e^{-pE} dq_4$ .  $\int_{123}^{123} e^{-pE} dq_4 = 2 \int_{123}^{123} e^{-pE} dq_4$ .  $\int_{123}^{123} e^{-pE} dq_4 = 2 \int_{123}^{123} e^{-pE} dq_4$ .  $\int_{123}^{123} e^{-pE} dq_4 = 2 \int_{123}^{123} e^{-pE} dq_4$ .  $\int_{123}^{123} e^{-pE} dq_4 = 2 \int_{123}^{123} e^{-pE} dq_4$ .