n_r^*

↓

$\frac{n_r^*}{N}$

$\langle n_r \rangle$

↓

$\frac{\langle n_r \rangle}{N}$

$N \to \infty$ $=$ P_r

FROGATU

Frogapena

bai

ONARTU ADIERAZPENA!

Frogapena

es

$n_r^* \propto e^{-E_r \beta}$

⇓

$\frac{n_r^*}{N} = \frac{e^{-\beta E_r}}{\sum_r e^{-\beta E_r}}$

$\frac{\langle n_r \rangle}{N} = \frac{e^{-\beta E_r}}{\sum_r e^{-\beta E_r}}$

Frogapena

ez

$\left\langle \left(\frac{\Delta n_r}{\langle n_r \rangle} \right)^2 \right\rangle = \frac{1}{\langle n_r \rangle} - \frac{1}{N} \left\{ 1 + \frac{(E_r - U)^2}{\langle (E_r - U)^2 \rangle} \right\}$

$\left(+ N \to \infty \Rightarrow \langle n_r \rangle \to \infty \right)$

$\left\langle \left(\frac{\Delta n_r}{\langle n_r \rangle} \right)^2 \right\rangle \to 0$

$N \to \infty$

$\langle n_r \rangle \to \infty$