MULTZO KANONIKOA

Gas idela, gainerako multzo mekaniko-kuantikoetan

K

$$Q_N(V,T) = \sum_E e^{-\beta E}$$ = MULTZOA

$$E = \sum_\epsilon n_\epsilon \epsilon$$ ↑ PARTIKULA BAKARRA

$$\sum_\epsilon n_\epsilon = N$$

$$Q_N(V,T) = \sum_{\{n_\epsilon\}} g\{n_\epsilon\} e^{-\beta \sum_\epsilon n_\epsilon \epsilon}$$

↑ batuaganitasuna

STATISTICAL WEIGHT FACTOR

- partikulu motaren arabera (izaeraren)
- zer banaketa hartu behar den kontuan

$$g_{\mathrm{BE}}\{n_\epsilon\} = 1$$

$$g_{\mathrm{FD}}\{n_\epsilon\} = \begin{cases} 1 \\ 0 \end{cases}$$

$n_\epsilon = 0, 1$ denak hartu ezdenak kontuan

$$g_{\mathrm{MB}}\{n_\epsilon\} = \prod_\epsilon \frac{1}{n_\epsilon!}$$

AURREKO ADIERAZPENETAN $g_i = 1$!!

EZ DITUGU ENERGÍA-MAILAK TALDEKATU