

Adinvalak

* GAS IDEALA ; mowoto mowko partikulo partikulo

MULTO EPATIVKO MUKOVKANOMKON

FASE EPATIVKO

Makro $N, V, E \approx E$

Mikro

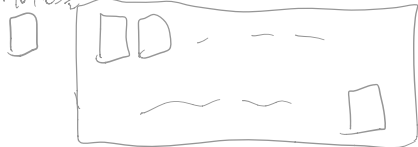


$\vec{q}^N \in V$

$E \in [E - \frac{1}{2}\Delta, E + \frac{1}{2}\Delta]$

$$\frac{\omega}{d!} \int \dots \int d\vec{q}^N d\vec{p}^N$$

$N, V, E \approx E$



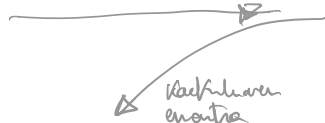
$q_p, 3D$

$$E = \sum_{i=1}^N \frac{1}{2m} (p_{x_i}^2 + p_{y_i}^2 + p_{z_i}^2)$$

$$\underbrace{\int \dots \int d^3q^N}_{V^N}$$

$$E - \frac{1}{2}\Delta \leq \sum_{i=1}^N \frac{p_{x_i}^2}{2m} \leq E + \frac{1}{2}\Delta$$

interpretirova
Kachilina



$$\omega \approx \frac{\Delta}{E} V^N \frac{(2\pi m E)^{\frac{3N}{2}}}{[(\frac{3N}{2} - 1)!]}$$

faz - xparovko kolmenno
Mikroepven Kypmavekko propotiva

→ alderatin
andko partko
enonturekko
Mikroepva Kypma

$$\Gamma \equiv \frac{\omega}{\omega_0}$$

alkatam - graduen Kypma $\equiv N$
 $\omega_0 = h$