

Ideal FD gas: phase diagram in $\mathcal{D} \rightarrow \infty$ [tln74]

Equation of state:

$$pv = \begin{cases} k_B T, & T > T_c \text{ (ideal MB gas)} \\ k_B T_c, & T < T_c \text{ (pure Fermi sea)} \end{cases}$$

Transition temperature:

$$k_B T_c = \frac{\Lambda}{e}, \quad \Lambda \doteq \frac{h^2}{2\pi m}.$$

