PHY 410 - Reference Sheet

Canonical Ensemble
Thermal Radiation
Phonons in a Solid

Grand Canonical Ensemble
Chemical Potential
Grand Potential
Fermions and Bosons
Ideal Gas

DOG (bork)

Boltzmann's constant
$k_B = 1.380649 \times 10^{-23} \mathrm{m^2\,s^{-2}\,K^{-1}}$

Entropy $S = k_B \sigma, \quad \sigma_{TOT} = \sigma_1 + \sigma_2$
Temperature $T = \tau / k_B$