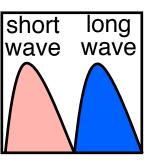
Microscopic world (photons, atoms, molecules)

Scaling

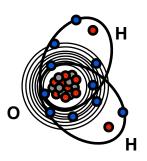
Macroscopic world (gases, fluids)



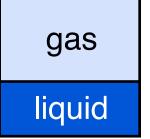
Photons as discrete quanta of electromagnetic radiation



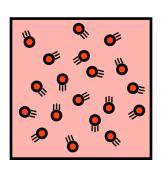
Radiative entropy: higher entropy of longer wavelengths



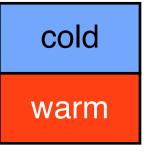
Discrete electronic states in molecules and molecular bonds



Molar entropy: higher entropy of gases and molecules



Discrete modes of vibration, rotation and translation of molecules



Thermal entropy: higher entropy of warm (and mixed) reservoirs