

hauptseminar summer 2014

UNDERSTANDING ENTROPY

all physicists know what entropy is
– but no two agree

$$S = k \log W$$



the 2nd law
time & entropy
entropic forces
entropy bounds
tsallis entropies
black hole entropy
fluctuation theorems
gravity as entropic force
brownian trajectory entropy
ratchets & maxwell's demon
dynamical systems entropies
entropies in statistical mechanics
h-theorem à la boltzmann & à la pauli
entropy & data mining/sampling/compression