

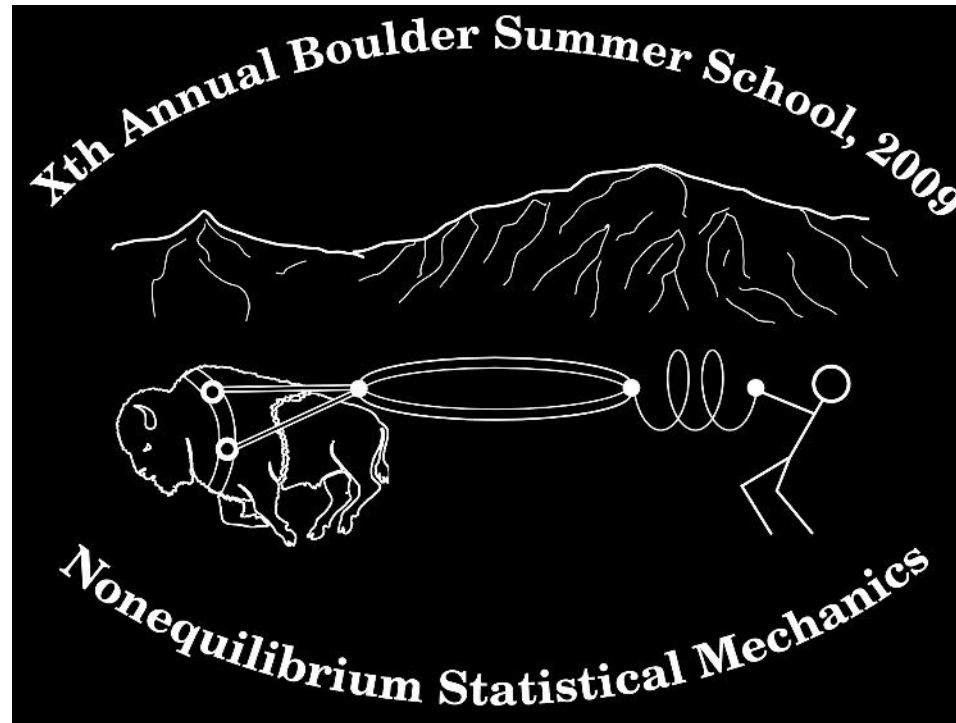
T-Shirt designs

Boulder Summer School for Condensed Matter
and Materials Physics

Nonequilibrium Statistical Mechanics:
Fundamental Problems and Applications

July 6 - July 24, 2009

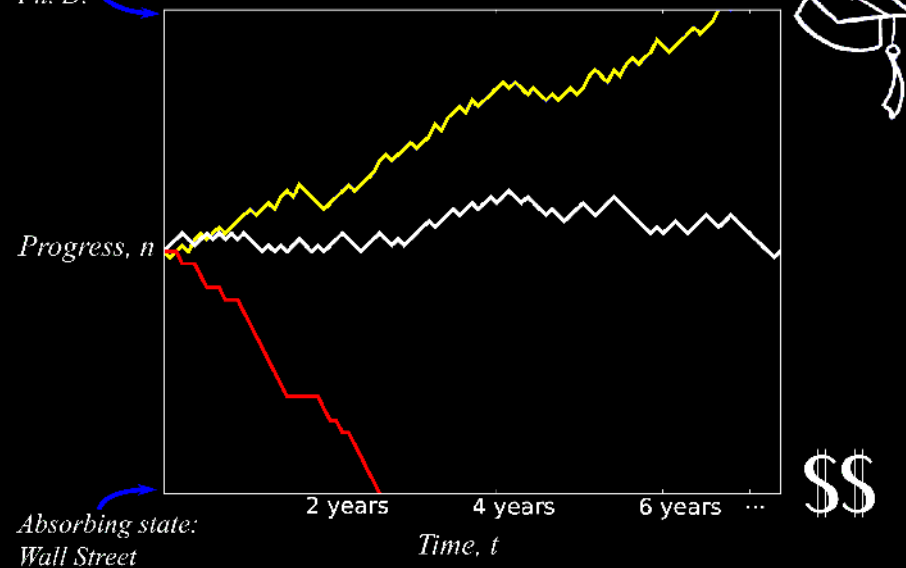
Front Design



Back Design

$$\frac{dP_n}{dt} = \sum_{n'} \left[\left(\text{cup} + \text{lightbulb} + \text{test tube} \right) P_{n'} - \left(\text{heart} + \text{broken heart} + \text{tired person} \right) P_n \right]$$

Absorbing state:
Ph. D.



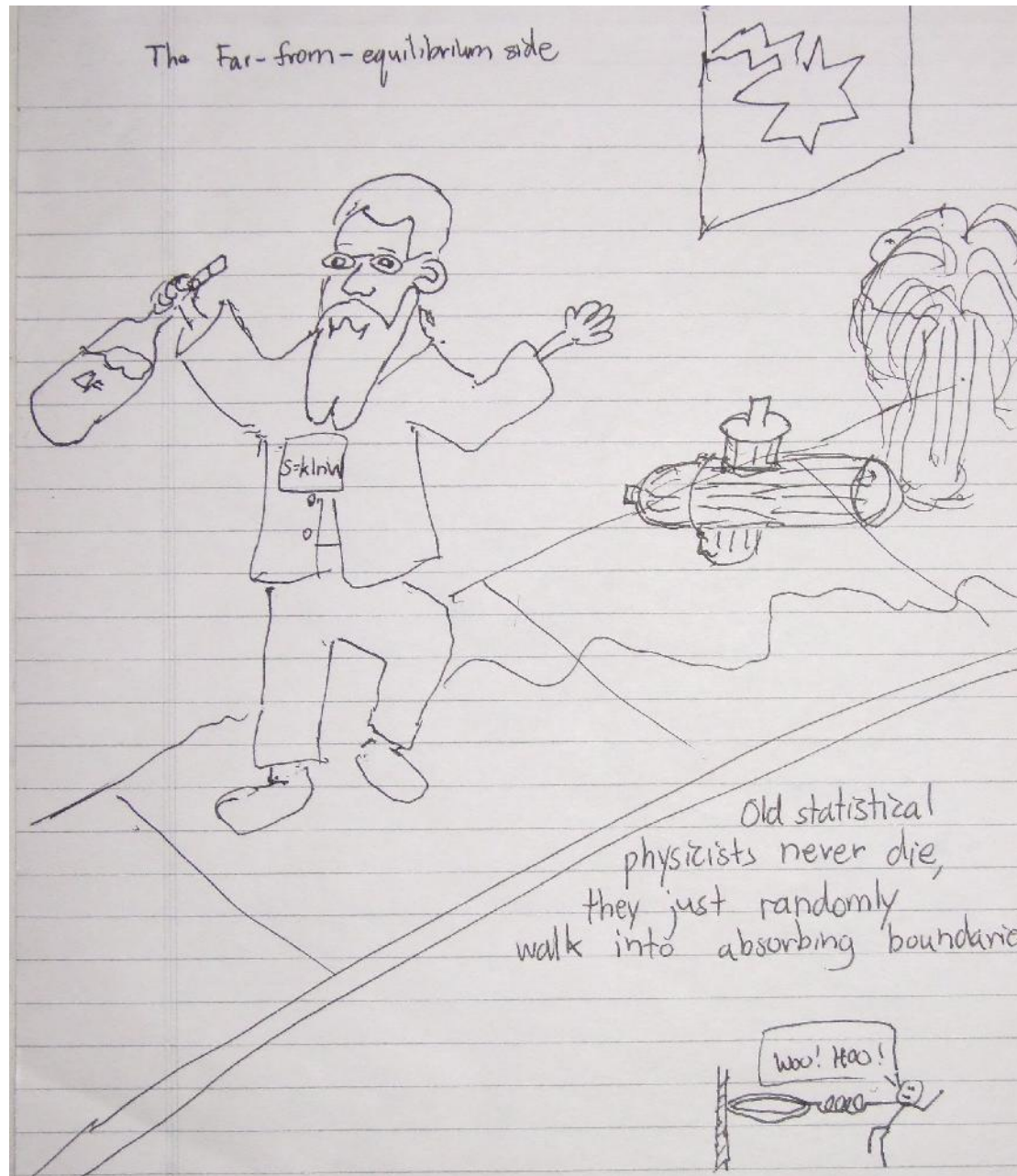
Other proposed designs

I: TASEP

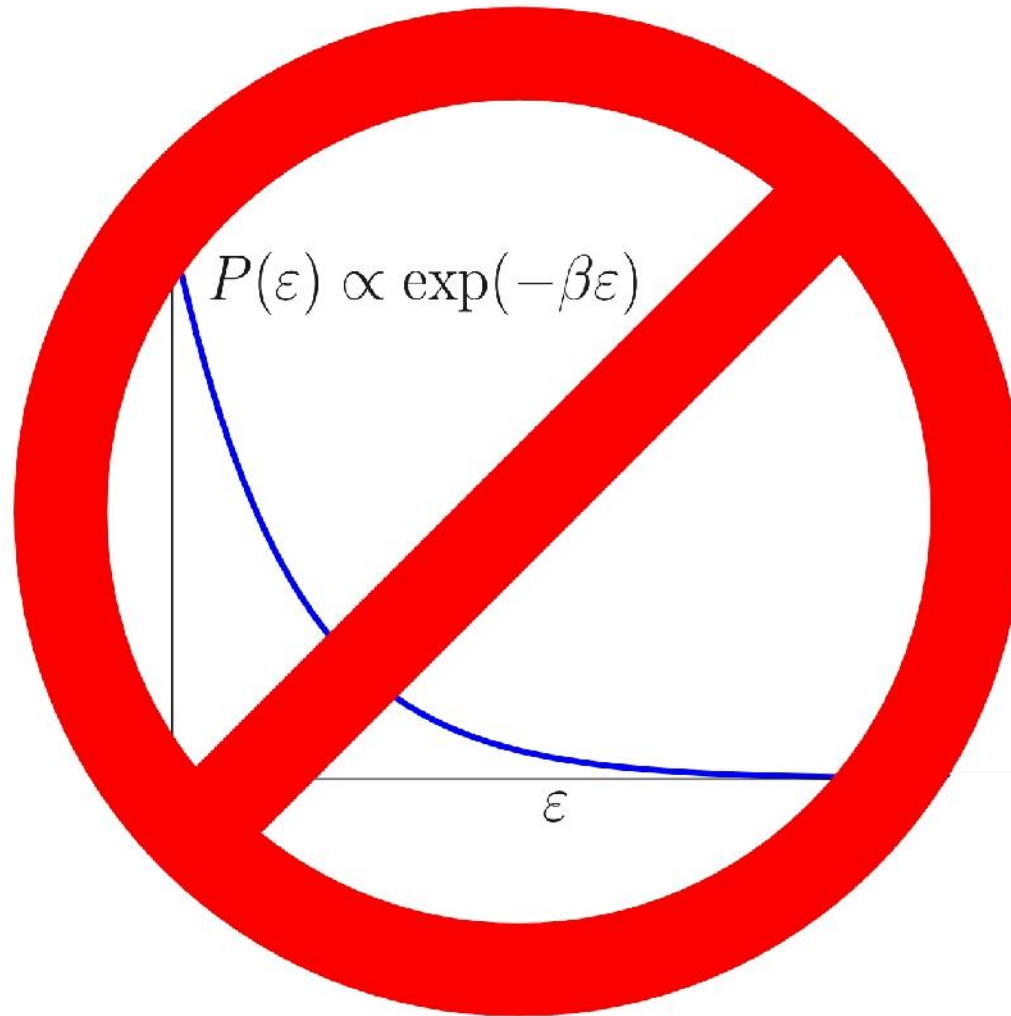


IF WHAT YOU DO DOES NOT SURPRISE YOU
RETHINK YOUR LIFE !

II: Boltzmann Out of Equilibrium



III: Just Say No



IV: The Matrix

Front:

```
n = 64
alpha = 0.7
beta = 0.3

lattice = zeros(n)

for t in range(0,200):
    lattice_new = lattice.copy()
    if lattice[0] == 0 and random() < alpha:
        lattice_new[0] = 1
    if lattice[-1] == 1 and random() < beta:
        lattice_new[-1] = 0
    for i in range(0,n-1):
        if lattice[i] == 1 and lattice[i+1] == 0:
            lattice_new[i] = 0; lattice_new[i+1] = 1;
    lattice = lattice_new.copy()
```

Back:

t

