

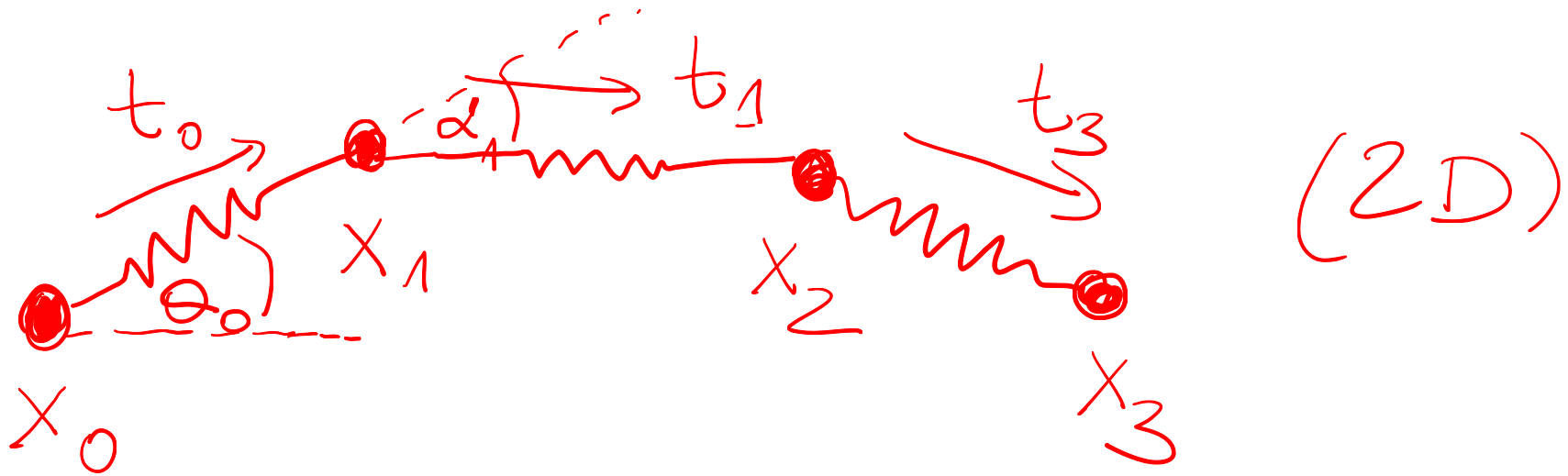
①

Equilibrium Stat Mech

of semiflexible fibers

Worm-like chains

(e.g. polymers, DNA, actin, microtubules)



$$l_j = \|x_{j+1} - x_j\|$$

$$t_j = \frac{x_{j+1} - x_j}{l_j}$$

②

Energy due to stretching

$$E = \frac{k}{2} \sum_{j=0}^{N-1} l_j^2$$

spring
constant

Called

"freely-jointed chain"

Statistical Mechanics dic

