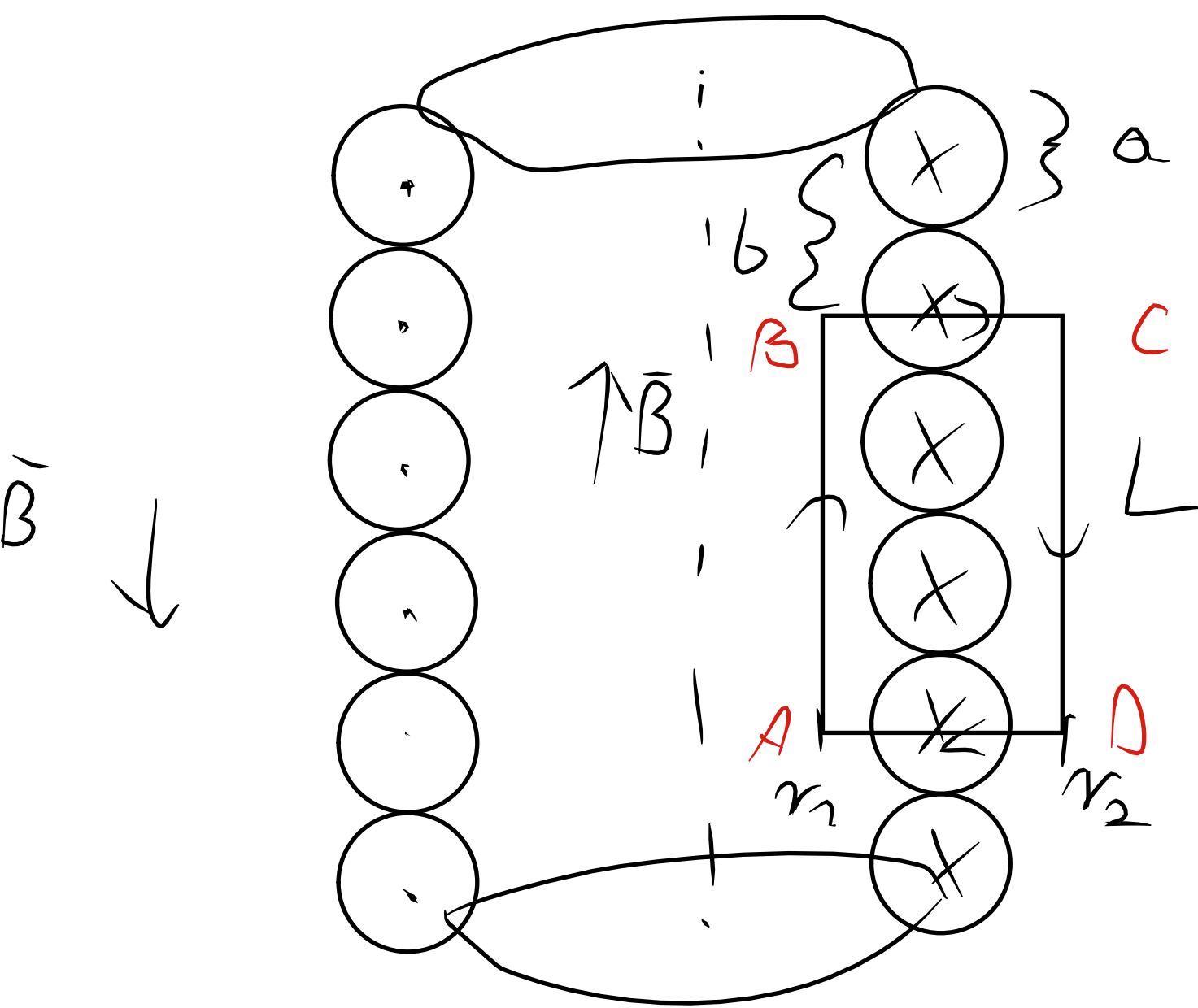


$b = a$, b_0 $\Delta \log \bar{I}$ ≈ 0 $\log \bar{I}$ ≈ 0



$$\mu_0 I \bar{I}_n = \int_A^B \bar{B} \cdot d\bar{I} + \int_B^C \bar{B} \cdot d\bar{I} + \int_C^D \bar{B} \cdot d\bar{I} + \int_D^A \bar{B} \cdot d\bar{I}$$

$\downarrow \bar{B}$

$$\mu_0 I \frac{L}{a} = L \bar{B}(r_1) - L B(r_2)$$

$$\frac{1}{a} \mu_0 I = \underbrace{B(r_1)}_{\text{state}} - \underbrace{B(r_2)}_{\text{state}}$$

$r_1 < r$ $r_2 > r$, $\bar{B}(r_1)$ - state $B(r_2)$ - state

$$B(r_2) = B(\infty) = 0$$

$$B(r_1) = \frac{1}{a} \mu_0 I$$

$$B(r) = \frac{\mu_0 I}{2a}$$

