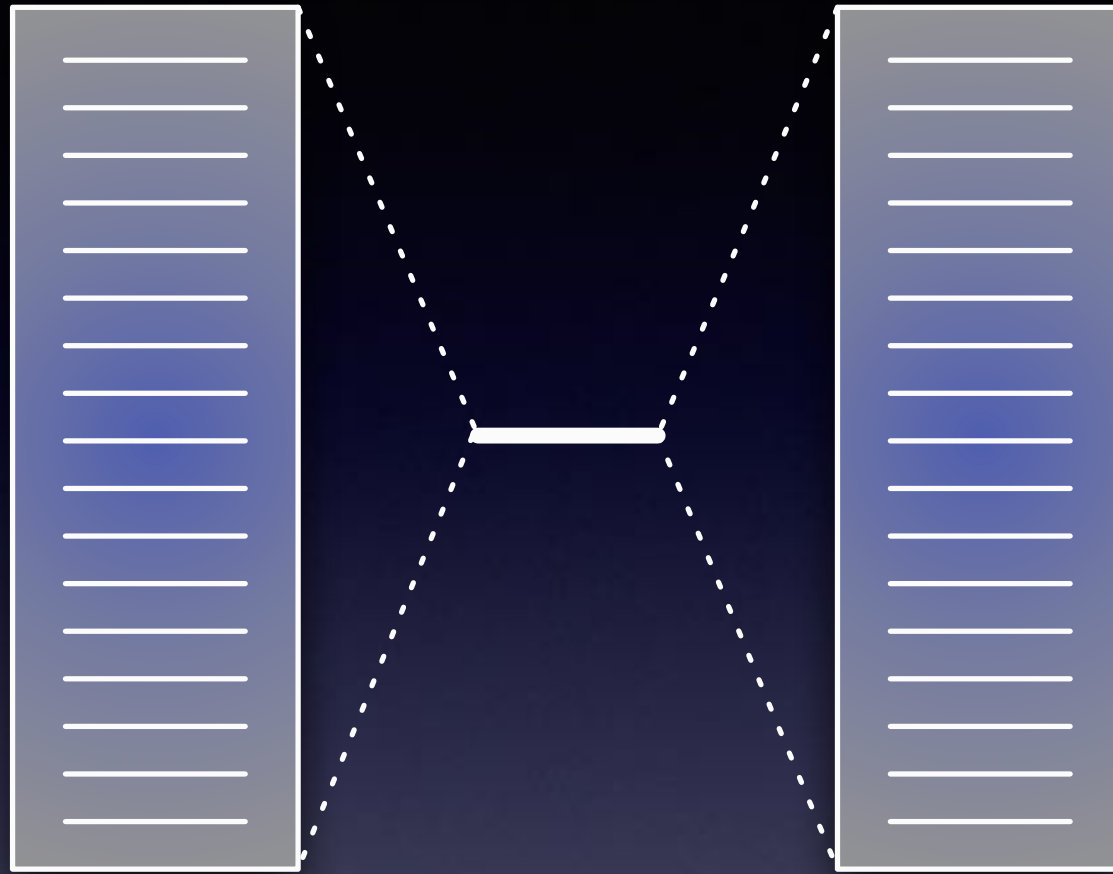# Landauer Model

$$\hat{H} = \sum_{k \in L} \epsilon_k \hat{a}_k^\dagger \hat{a}_k + \epsilon_0 \hat{a}_0^\dagger \hat{a}_0 + \sum_{k \in R} \epsilon_k \hat{a}_k^\dagger \hat{a}_k$$

$$+ \sum_{k \in L} t_k \left(\hat{a}_0^\dagger \hat{a}_k + \hat{a}_k^\dagger \hat{a}_0 \right) + \sum_{k \in R} t_k \left(\hat{a}_0^\dagger \hat{a}_k + \hat{a}_k^\dagger \hat{a}_0 \right)$$

Different Biases