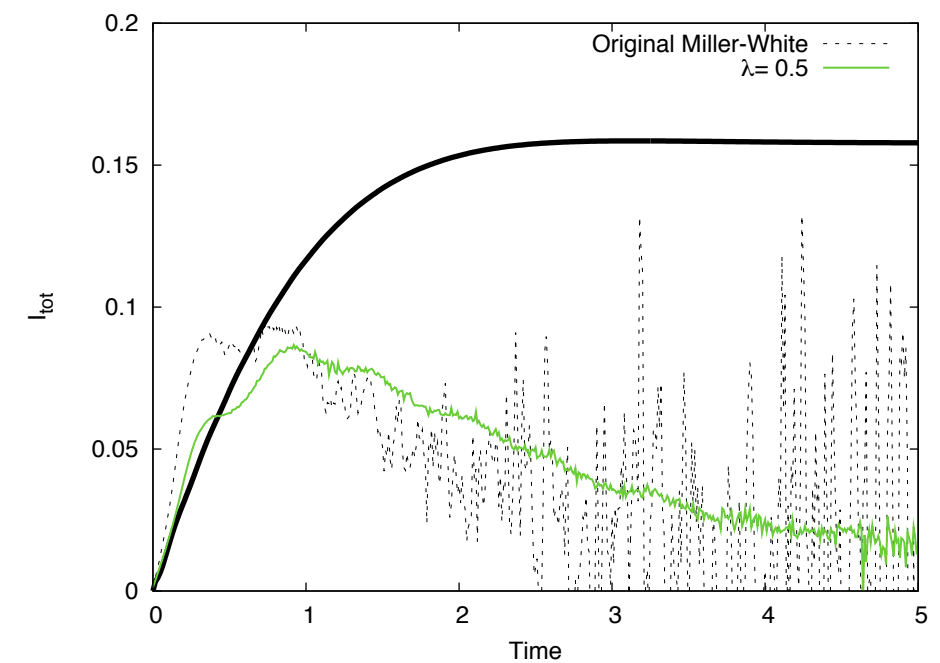


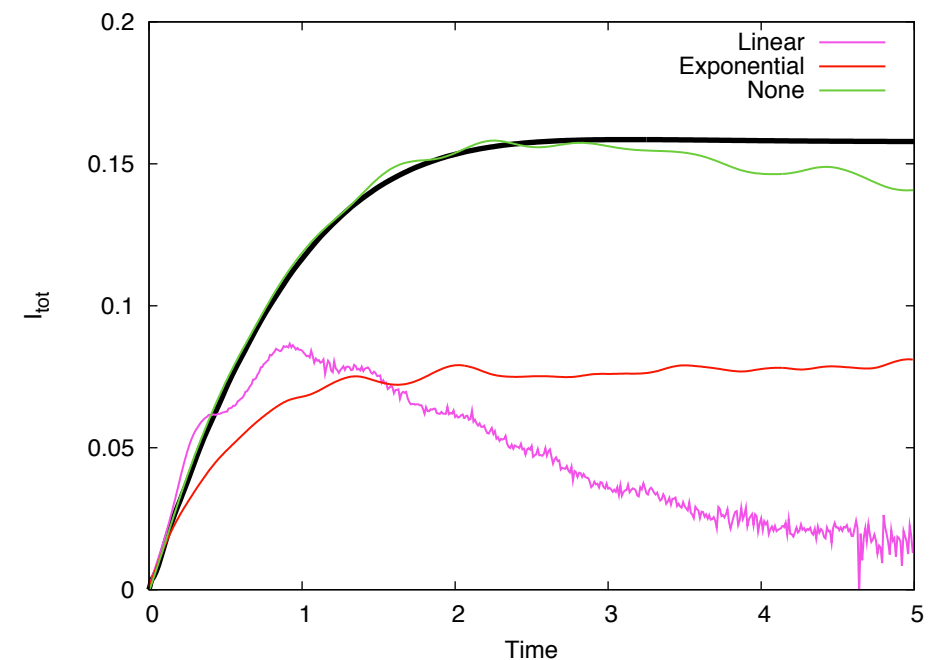
Short time:

Match the $t=0$ time derivatives



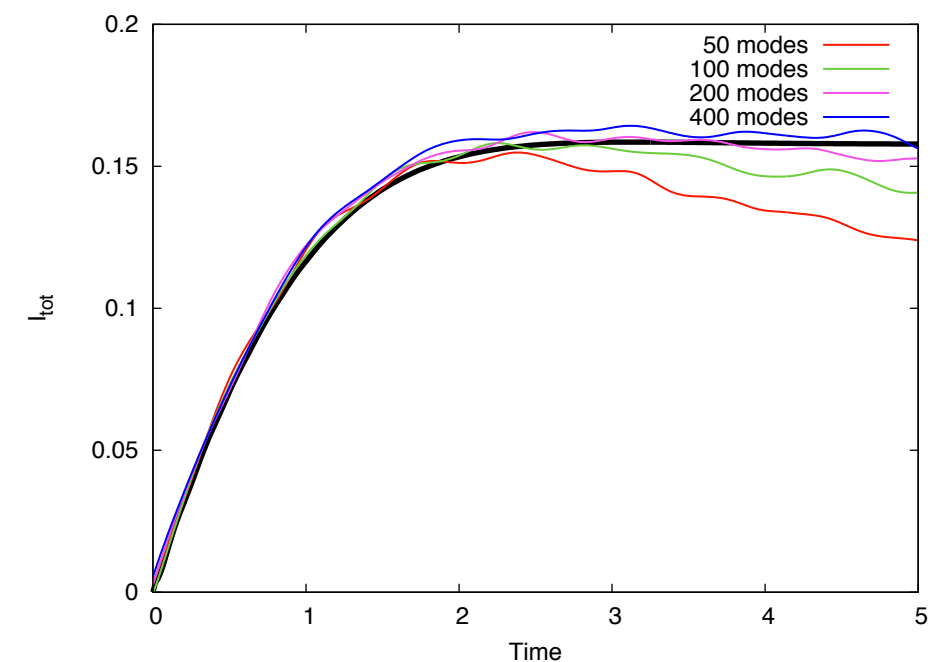
Intermediate time:

Remove the normal ordering
“book-keeping” from dynamics

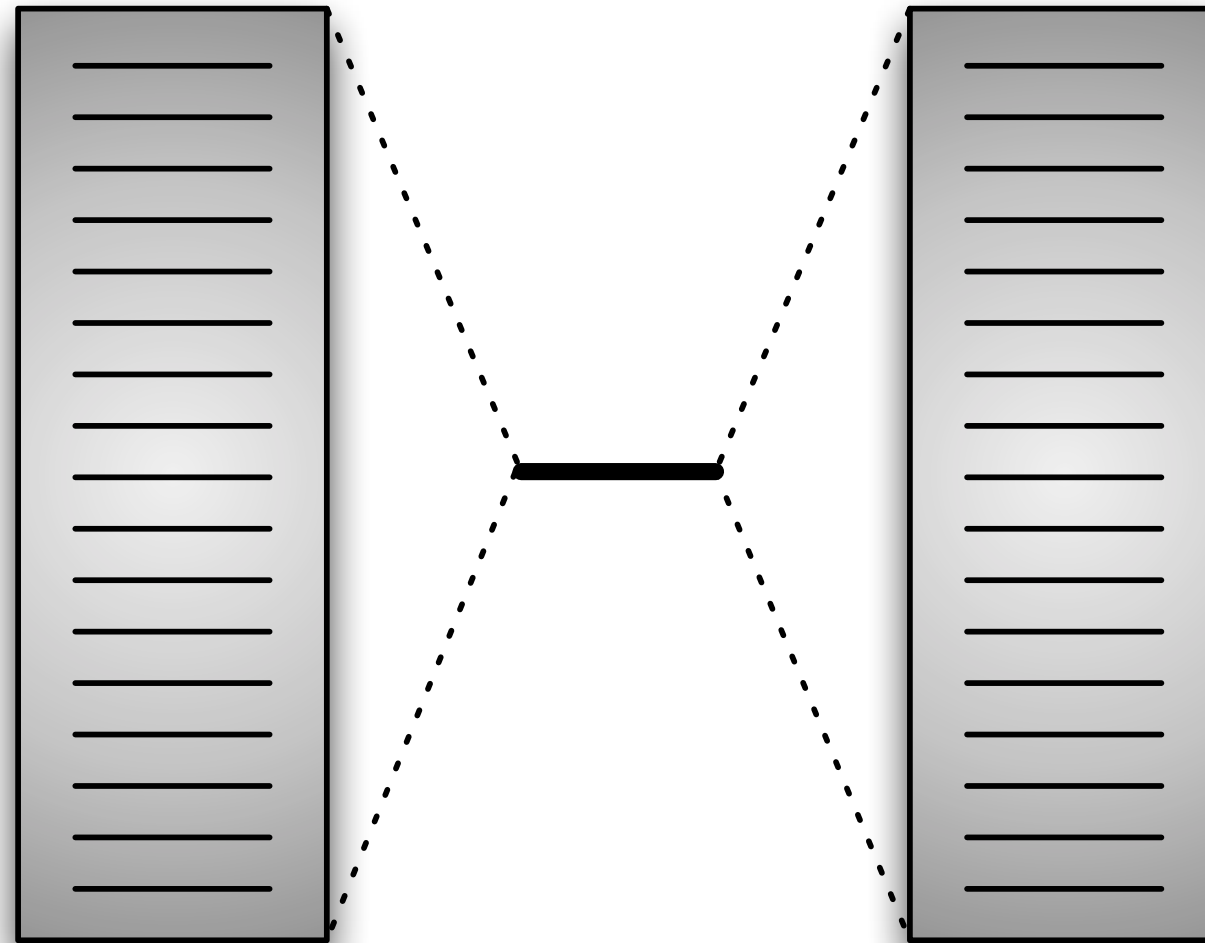


Long time:

Include more modes in the
electrodes.



Landauer Model



$$\begin{aligned}
 & \sum_{k \in L} \epsilon_k n_k + \epsilon_0 n_0 + \sum_{k \in R} \epsilon_k n_k \\
 & + \sum_{k \in L} t_k \sqrt{\left(\sigma^2 - (n_k - 1/2)^2 \right) \left(\sigma^2 - (n_0 - 1/2)^2 \right)} \cos(q_0 - q_k) \\
 & + \sum_{k \in R} t_k \sqrt{\left(\sigma^2 - (n_k - 1/2)^2 \right) \left(\sigma^2 - (n_0 - 1/2)^2 \right)} \cos(q_0 - q_k)
 \end{aligned}$$