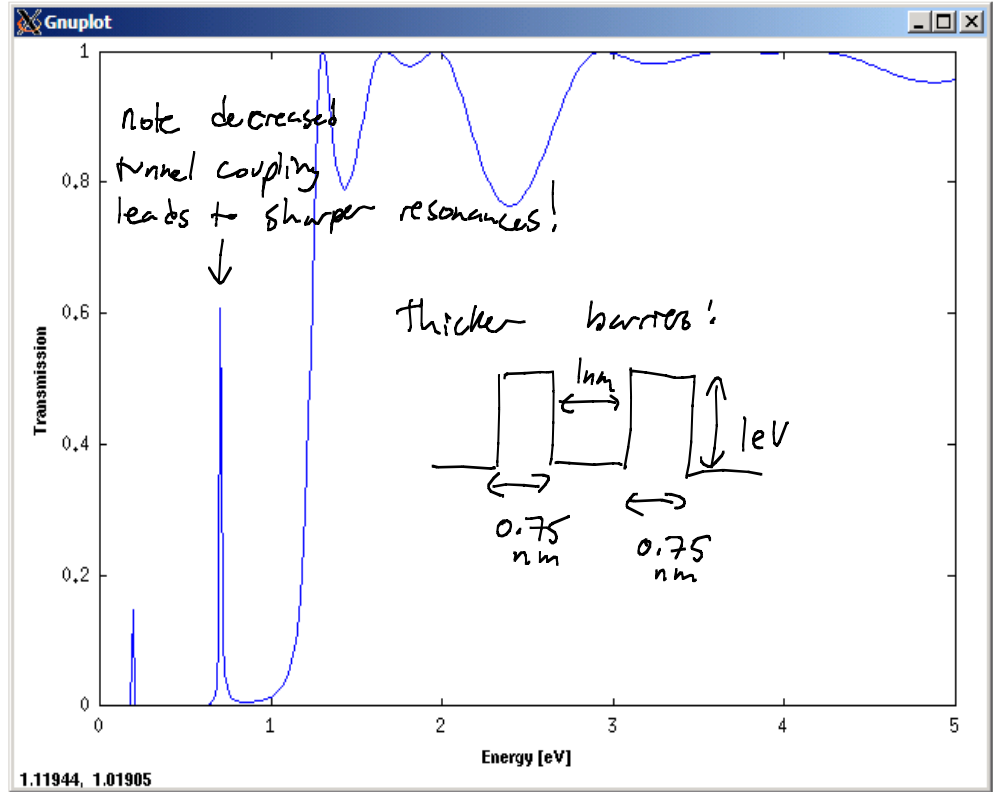
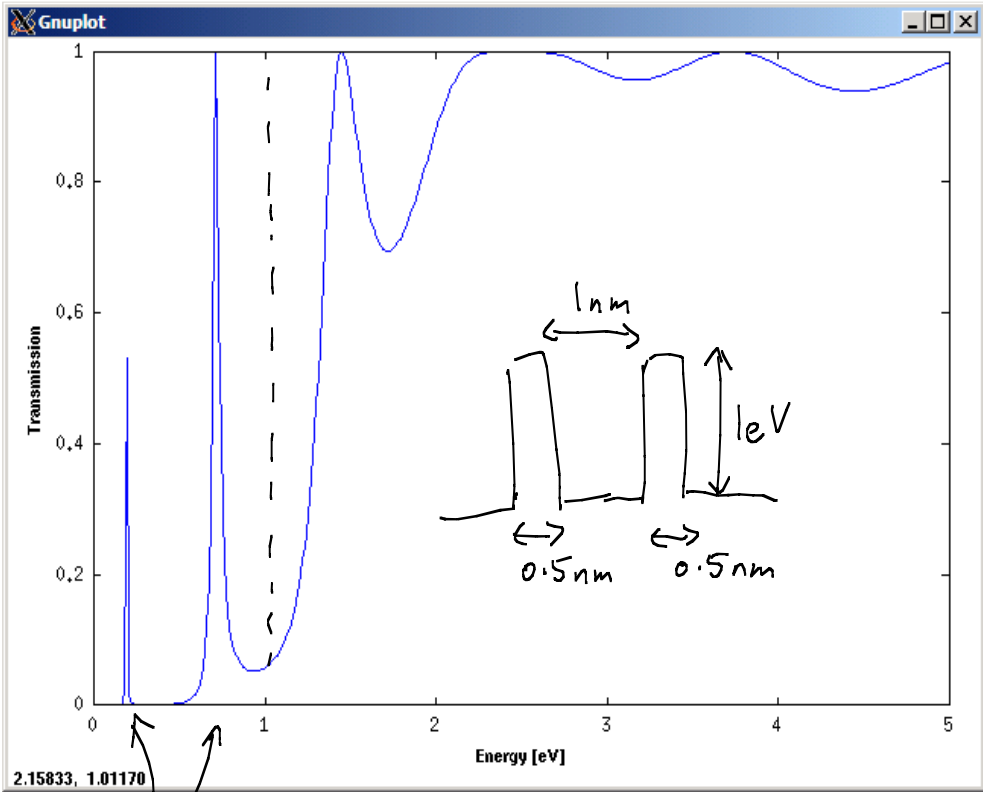
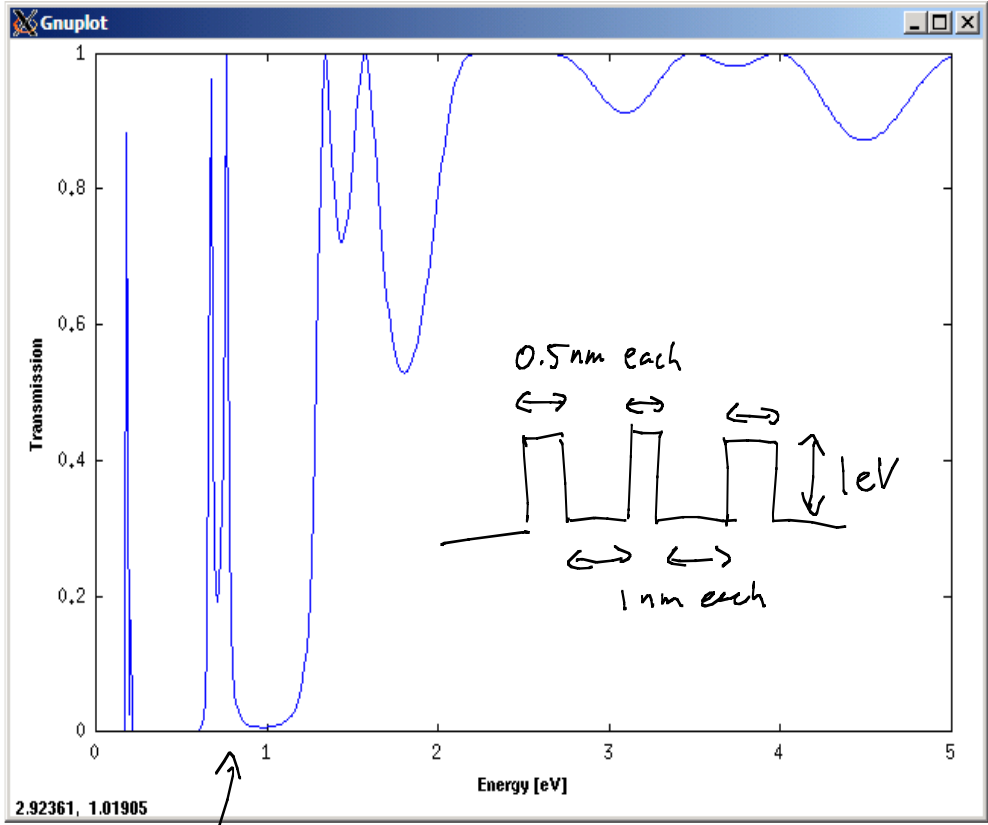


Two barriers



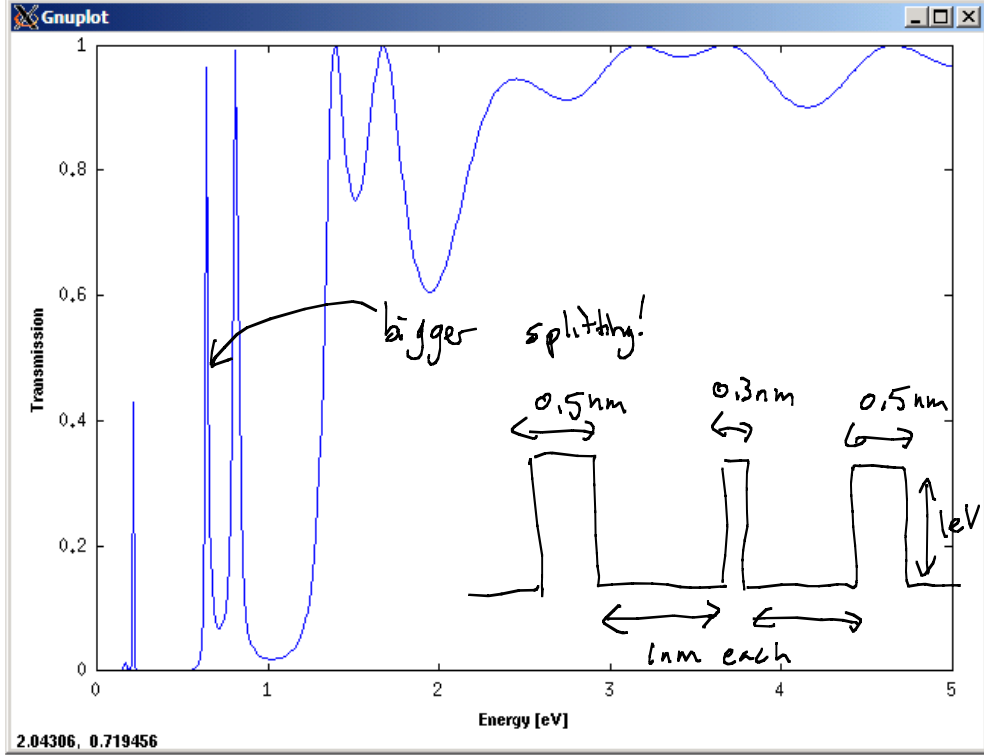
resonances due to quasi-bound states: since $\Delta E \Delta t \sim \hbar$ (frequency-time uncertainty rel'n), the resonances get wider as the quasi-bound state is tunnel-coupled stronger to the continuum of scattering states.

Three barriers

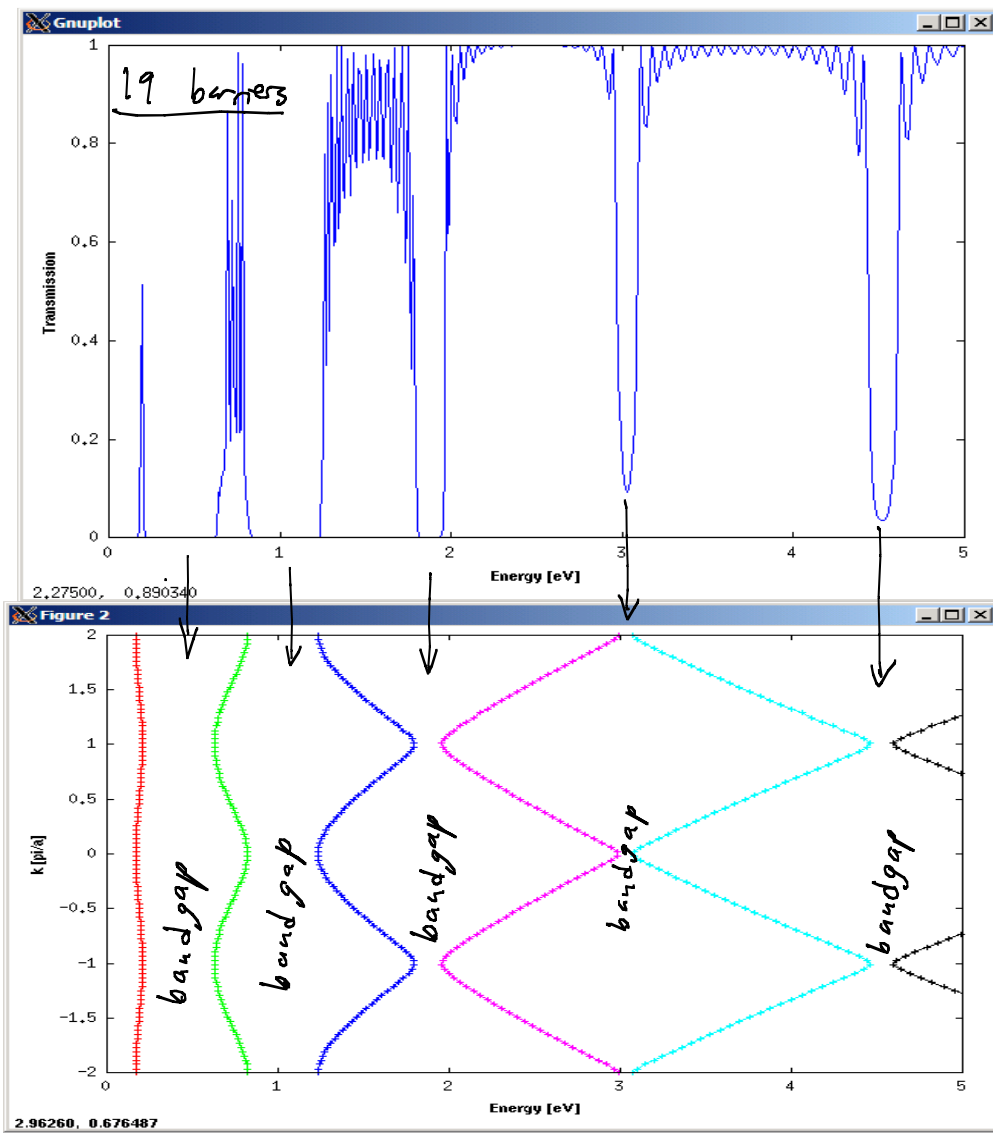
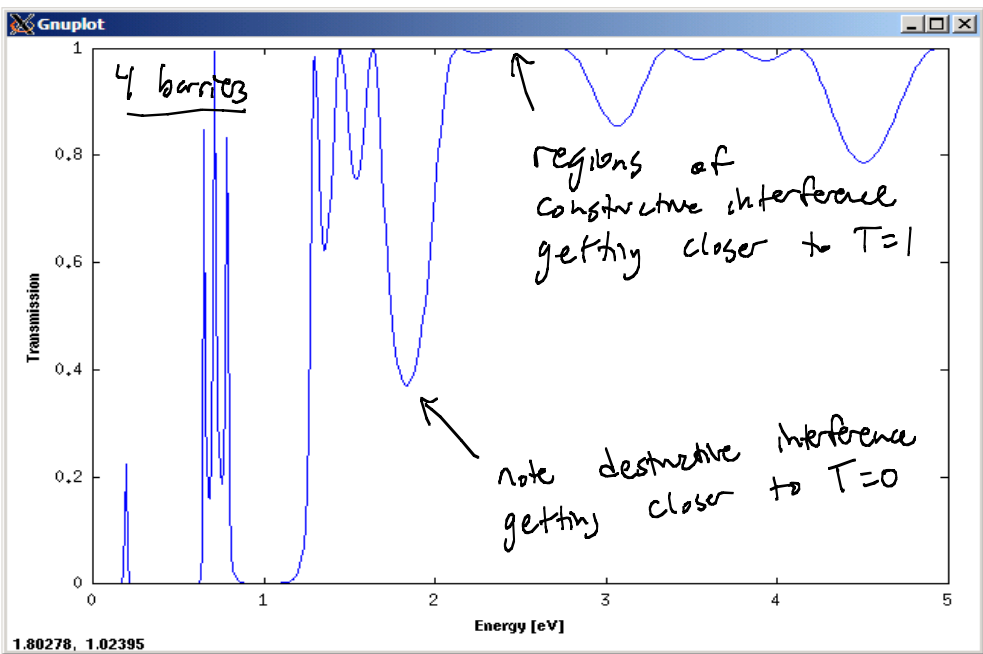


note splitting, just like "bonding"/"antibonding" splitting of coupled bound states!

Increased coupling:



4 barriers and more



In limit of infinite barriers, we have full translational symmetry and k is conserved \rightarrow "bands" and "bandstructure"!