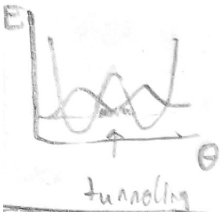


Lecture 15 review:



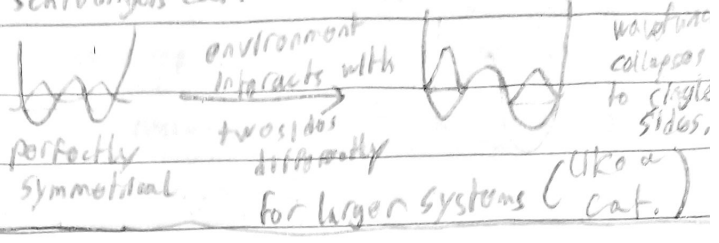
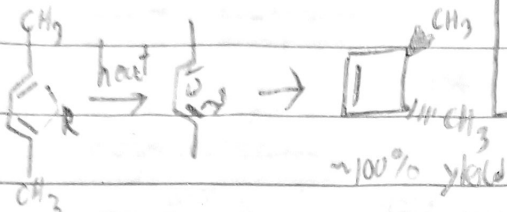
Possible states:
 qubits: $\psi_0 + \psi_1$ $\psi_0 - \psi_1$

Q-Computers can calculate with both values at once; classical computers can only process "0" and "1" sequentially.

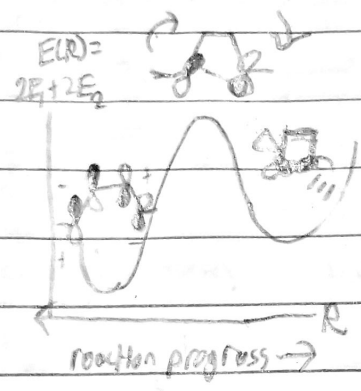
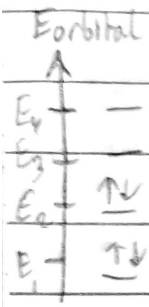
Schrödinger's cat:

Lecture 16: QM and the outcome of chemical rxns.

OX:
 2,4-hexadiene

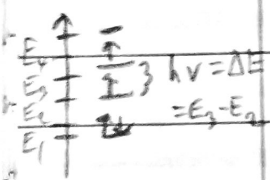
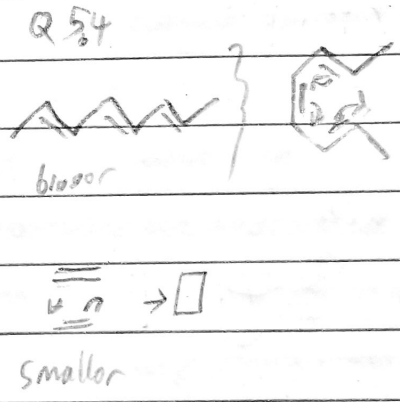
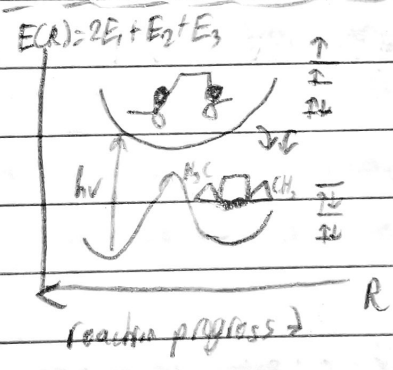
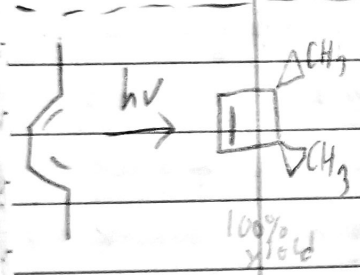


How does QM explain this?

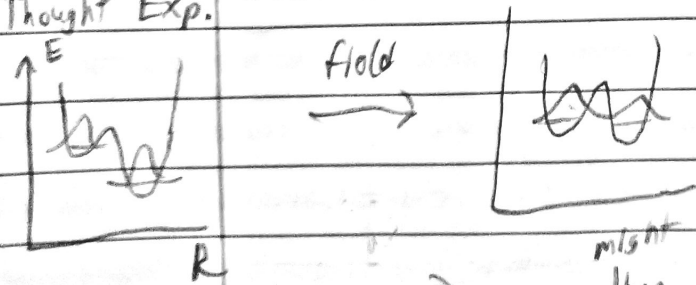


Rotation 1 direction brings same sign orbital together. The other direction, opposite sign. Bonding vs. antibonding.

4 π electrons



Thought Exp:



might be cheaper than inputting E & letting it release afterward from the other state.

Differences in energy level means the 2 states are localized. This means tunneling won't happen for high enough ΔE .