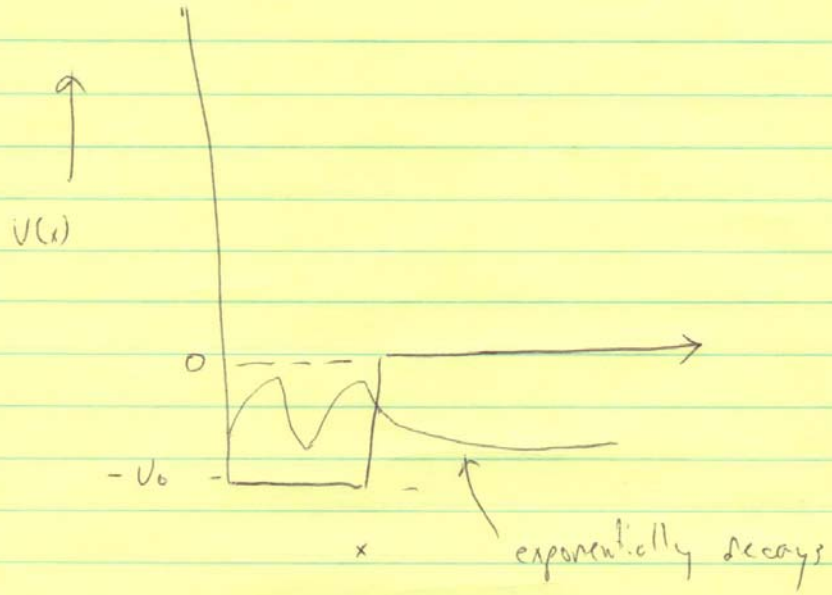


1a.)

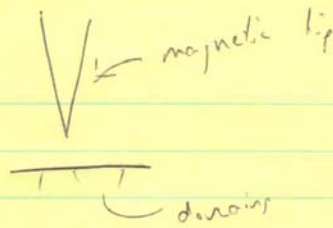


2.) STM tip



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2.) magnetic tip



write -

tip approaches surface closely enough to change magnetization of domains

read -

tip far from surface, but magnetization of domains changes force on tip

3.) vibrating tip goes from material A to B
van der Waals interaction change

- a.) frequency
- b.) phase
- c.) amplitude