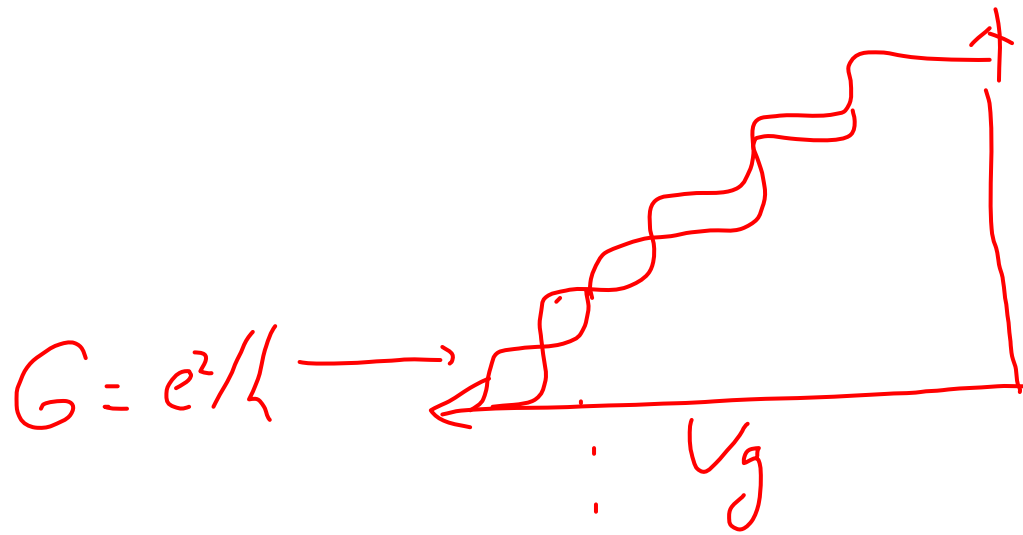


Landauer - Büttiker formalism

Uncorrelated because charge is
discrete

$\left\{ \begin{array}{l} t : \text{transmission} \\ r : \text{reflection} \end{array} \right.$



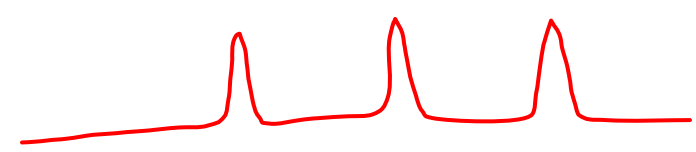
G
 Measure a c
 conductance
 transconductance

Coulomb
 charging
 SET

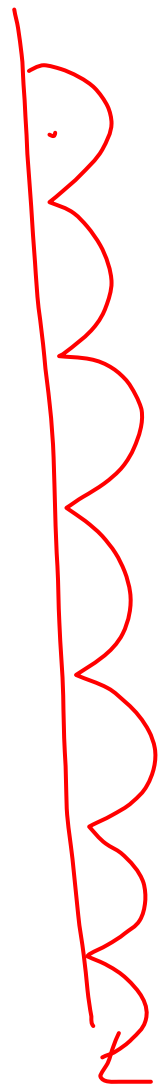


dG/dVg

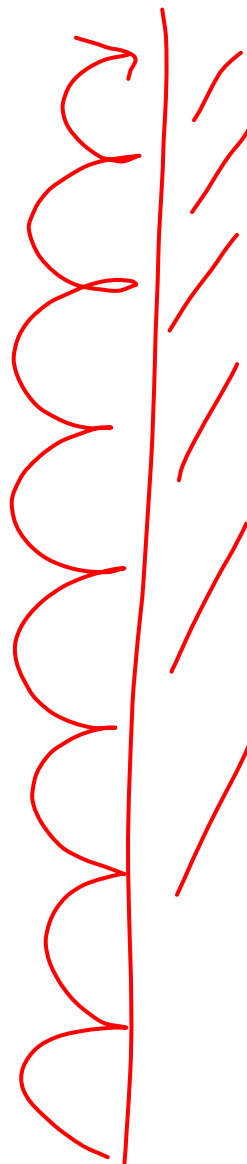
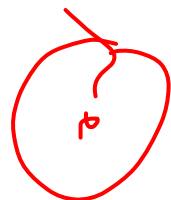
subband spacing
 $\sim meV$



Experimentally, one does not observe a $(0.5)(2e^2/h)$ conductance plateau in source-drain bias measurements.



bulk



edge

0.7 structure

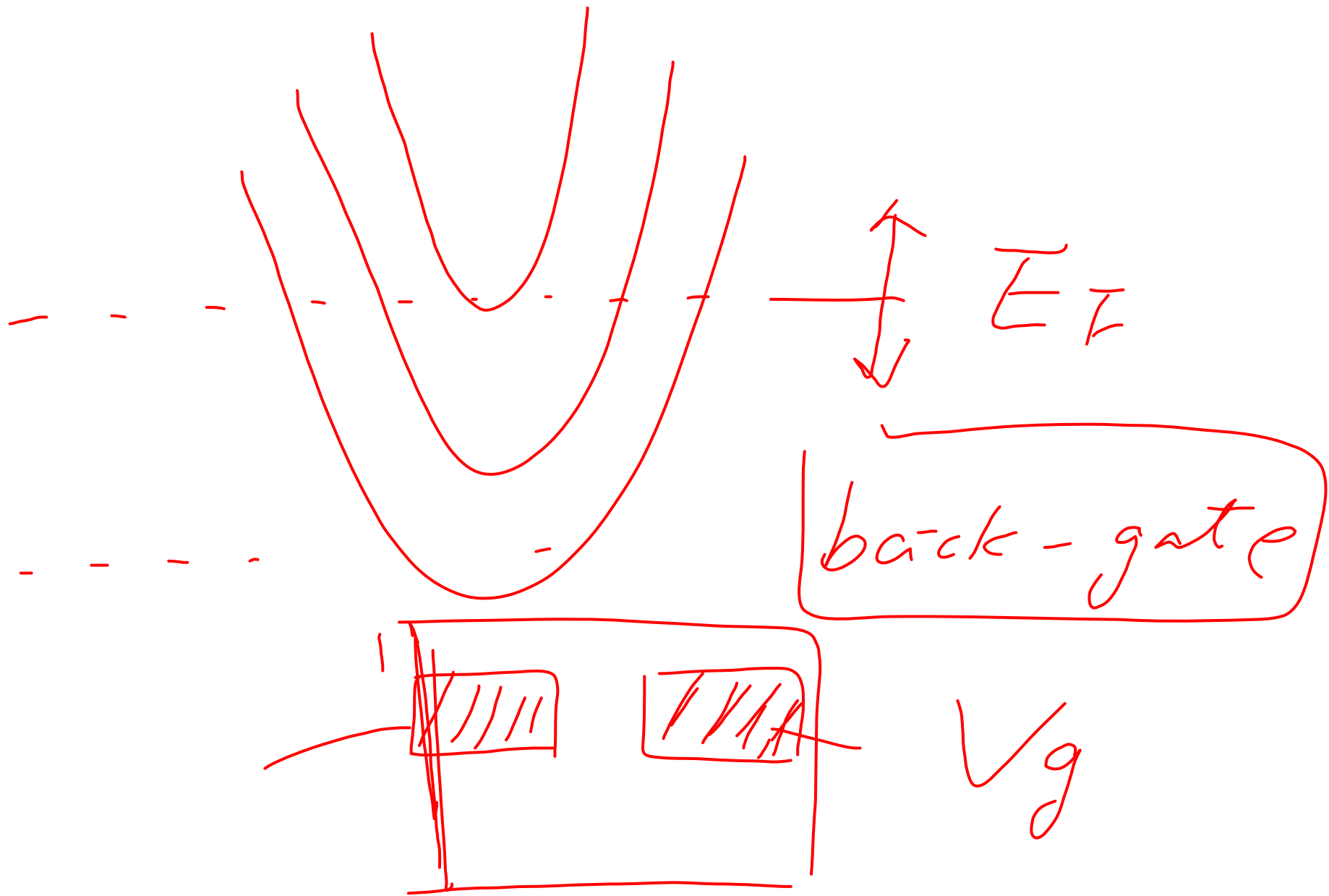
plateau-like feature

close to $(0.7)(2e^2/h)$ at $B=0$

K. J. Thomas et al.

Spin-related

{ Electron-electron interactions?
Kondo effect?



$$\frac{V_A - V_C}{I} = \frac{h}{Ne^2}$$

N : # of edge channel