Non-Equilibrium Green's Function (NEGF) S. Dalta, Superlettice & Hicrostructures, Vol. 28, No. 4, p. 253, 2000 S. Dalta, "From atoms to transisters", Ed. Cambridge University Fren (Capt. 8,9,10) Nanohub. org: Lecture To notre transport problem, you need these ingrédients: H, Σ (you can have multiple leads, so $\Sigma_1, \Sigma_2, \ldots \Sigma_m$) The "reapes"; Onen's function Matrix G = [EI- H - Z1 - Z2] T₁ = i \Spectral Horbice $T_2 = j \left[\mathcal{Z}_2 - \mathcal{Z}_2^+ \right]$ LDOS1 = 1/27 diag { G M, G + } LDOS2 = 1 drag & G M2 G & T = tr frz G M G+ = tr f M G M G M G+ G $M = 2 \int dE \left\{ L \log_1 \left\{ (E - E_{F_2}) + L \log_2 \left\{ (E - E_{F_2}) \right\} \right\} \right\}$ P = 2 JdF SLDOS1 [1-\$(E-EF1)] + LDOS2 [1-\$(E-EF2)] Self-consistent solution Intimal solution for of $\nabla \cdot (\epsilon \nabla \phi) = -q \left[p - m + No^{\dagger} - NA^{\dagger} \right]$ $\|\phi_{m+1}-\phi_m\|_2<\varepsilon$ been reached? LANDAUER'S FORWLA $I = \frac{29}{h} \int_{0}^{\pi} dE T(E) \left[f(E - E_{FA}) - f(E - E_{F2}) \right]$

 $\frac{1}{2} = \frac{1}{2} = \frac{1}$