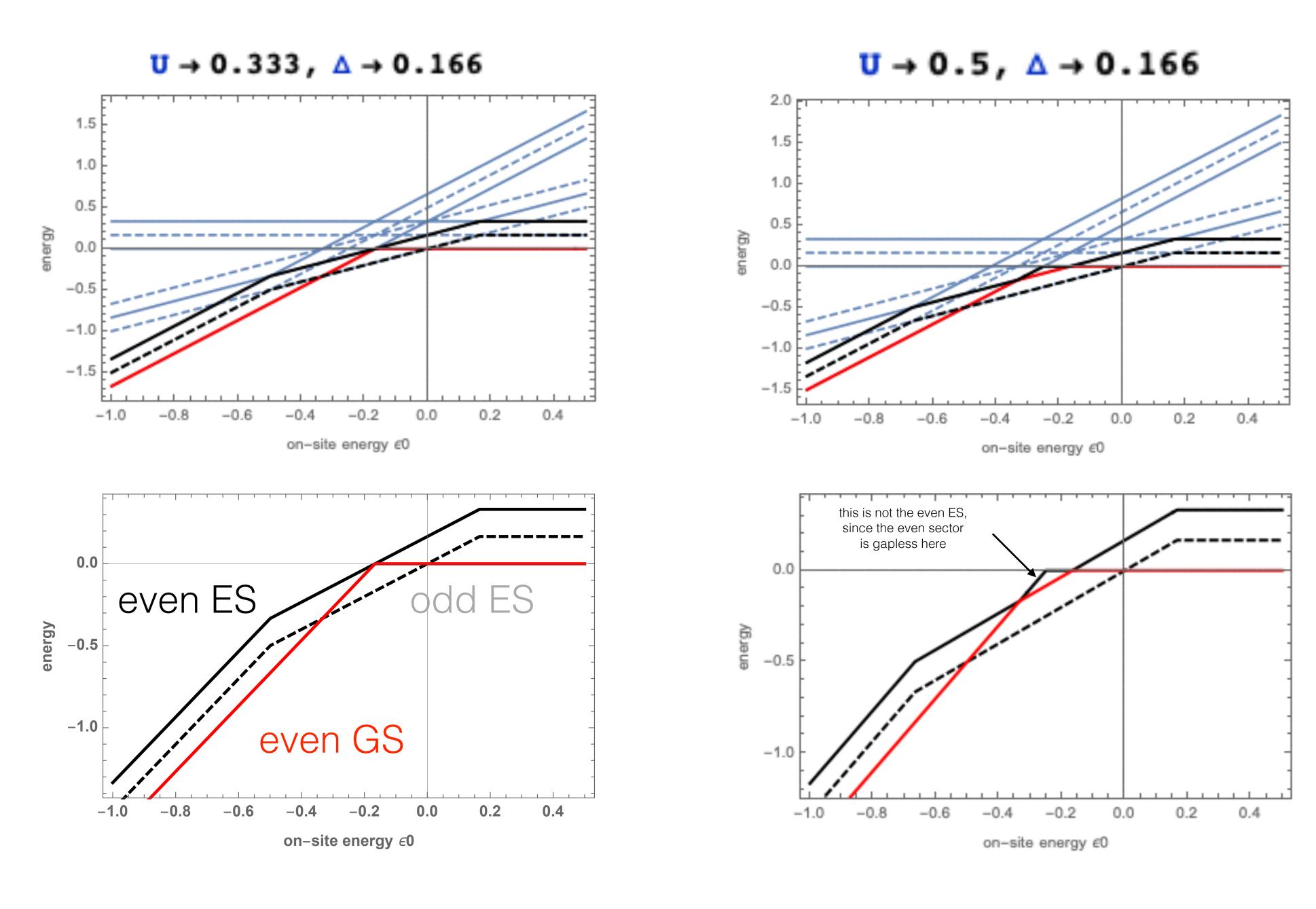


M = 0.333  $\Delta = 0.166$ As fur of EE[-1, +1], determine even 65, odd 65, even Es, odd ES<sub>1</sub>, + dot hage n<sub>d</sub>(E) for all 45 tates.

(t=s) Odd states Even states only lower edge of 9p continuen is not 19p 1 wousidered (11,0) (1,2) E(n,n) 0,1) 103>  $|2,0\rangle$   $|2,2\rangle|n_d,|n_q\rangle\rightarrow \mathcal{E}_o n_d + \frac{1}{2} u n_d (n_d-1) + \Delta n_q$ 

## Rok's hypothesis: n(evenES) = n(oddGS)



$$C = P_{g0}|e|^{2} \frac{dn_{g}}{d\epsilon_{0}} \Big|_{\epsilon_{0} = \epsilon_{0}^{w}} + (1 - P_{g0})|e|^{2} \frac{dn_{e}}{d\epsilon_{0}} \Big|_{\epsilon_{0} = \epsilon_{0}^{w}} + (n_{g0} - n_{e0})|e|^{2} \frac{\lambda^{2} \eta}{\omega^{2} + \gamma^{2}} \frac{dS_{mg}}{d\epsilon_{0}} \Big|_{\epsilon_{0} = \epsilon_{0}^{w}} \gamma$$

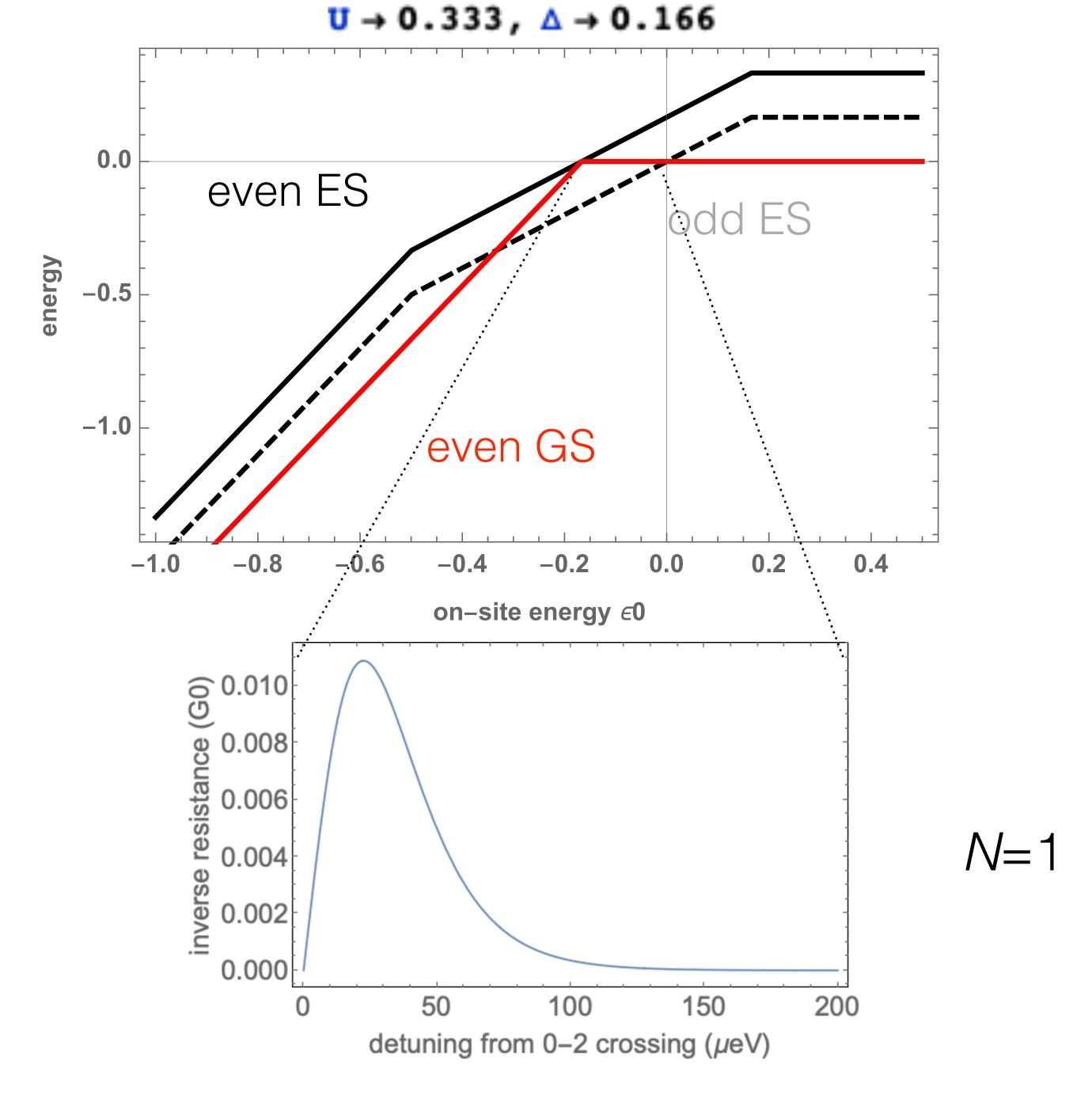
$$\frac{1}{R} = (n_{g0} - n_{e0})|e|^2 \frac{\lambda^2 \eta}{\omega^2 + \gamma^2} \frac{dS_{mg}}{d\epsilon_0} \Big|_{\epsilon_0 = \epsilon_0^w} \omega^2$$

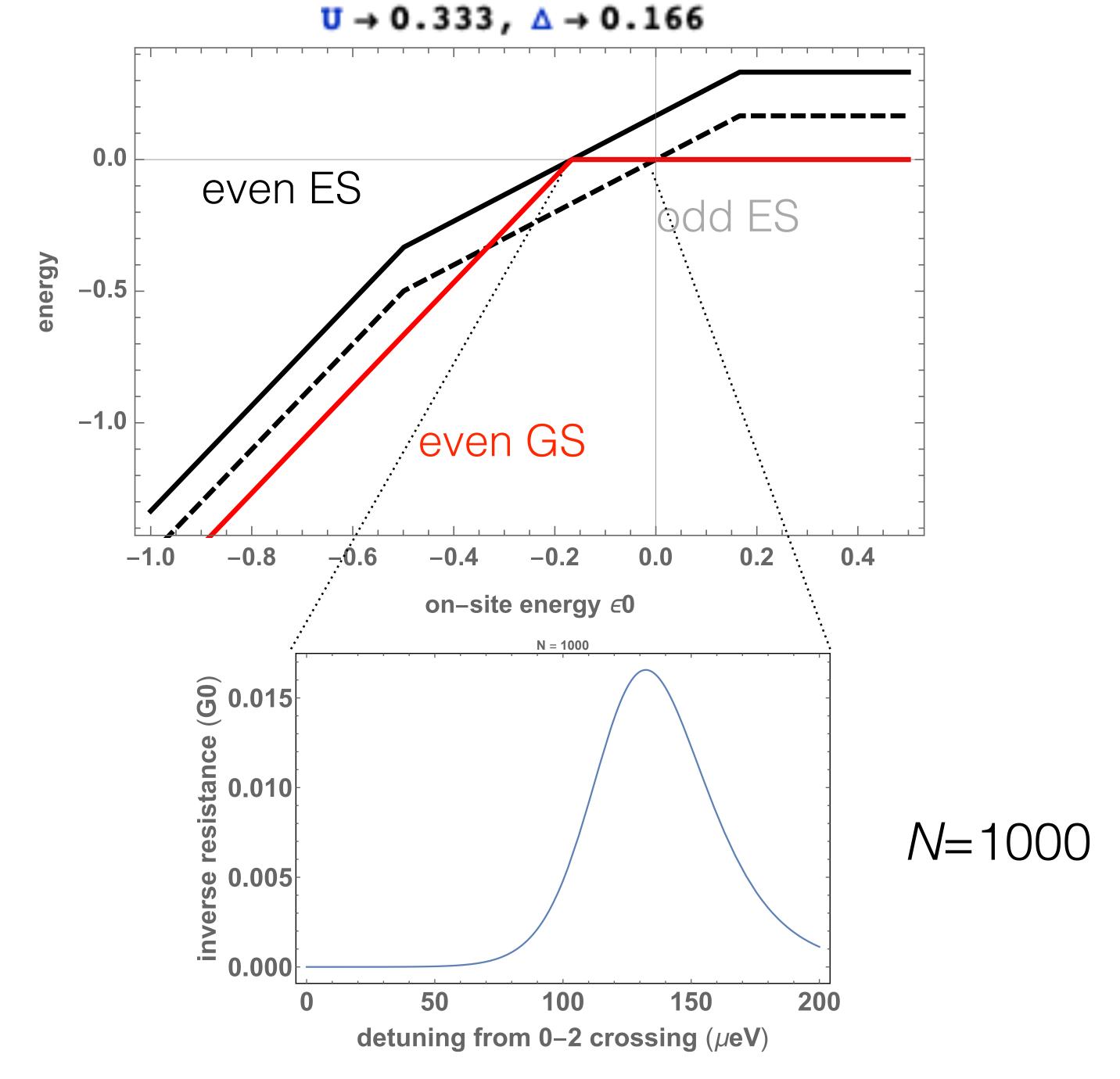
$$\lambda = \frac{e^{\delta_0/kT} + 1}{e^{\delta_0/kT} + N}$$

$$\gamma = N\Gamma_+^0 + \Gamma_-^0 = \Gamma \frac{e^{\delta_0/kT} + N}{e^{\delta_0/kT} - 1}$$

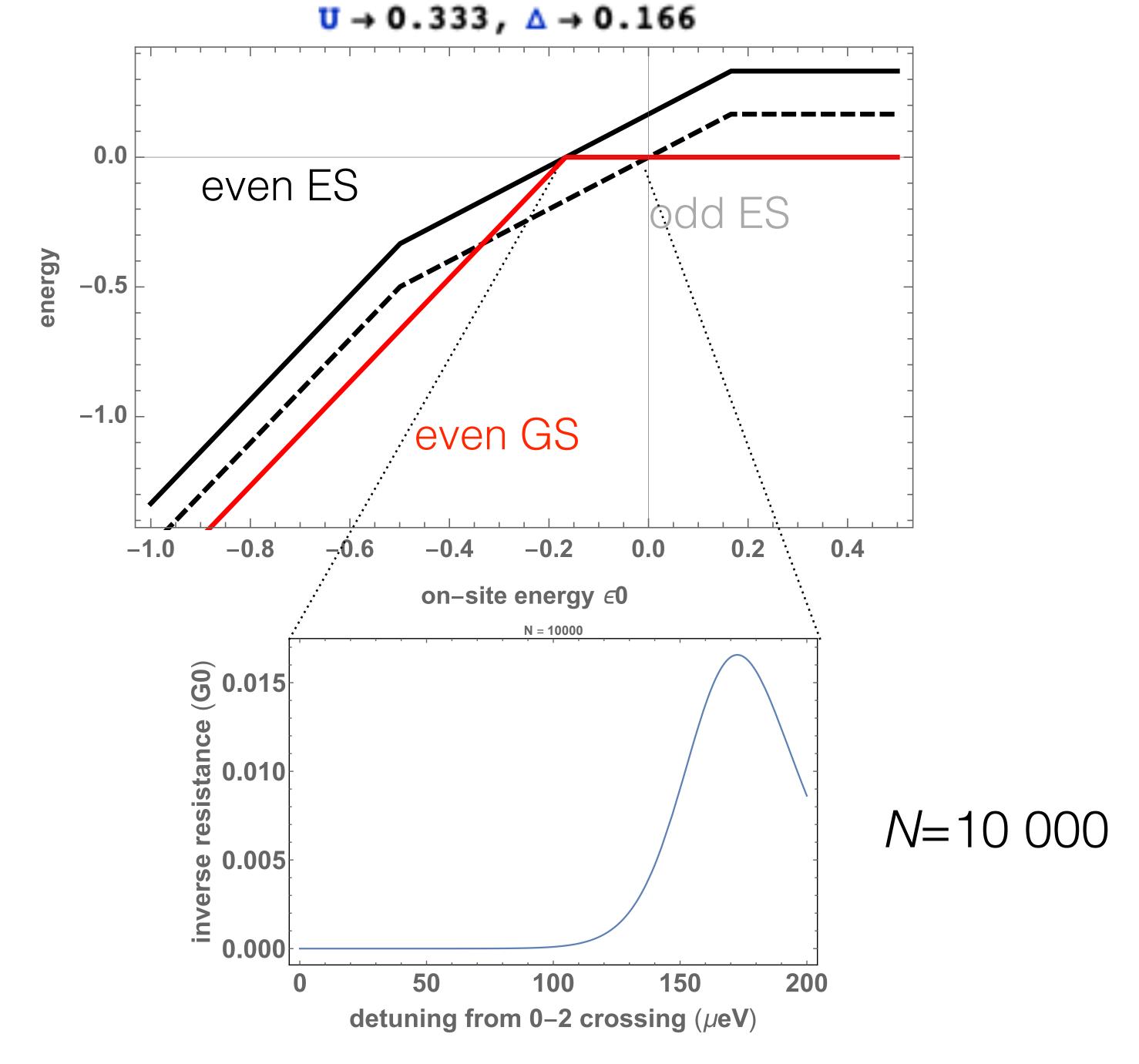
$$\eta = \frac{N\gamma}{4kT\cosh^2\left(\frac{\delta_0}{2kT}\right)}$$

$$P_0 = \frac{1}{1 + Ne^{-\delta_0/k_BT}}.$$





 $\{\omega \to 2 \; \pi * 500 * 10 \; ^{\circ}6, \; \delta 0 \to 15 * (10 \; ^{\circ}-6) \; * \; 1.6 * \; (10 \; ^{\circ}-19) \; , \; \mathbf{T} \to 0.2, \; \mathbf{kB} \to 1.4 * \; 10 \; ^{\circ}-23 \; , \; \mathbf{e} \to 1.6 * \; 10 \; ^{\circ}-19 \; , \; \mathbf{\Gamma} \to 10 \; ^{\circ}10 \; , \; \mathbf{E} \to 1.6 * \; 10 \; ^{\circ}-19 \; , \; \mathbf{E} \to 1.6 * \; 10 \; , \; \mathbf{E} \to 1.6 \; , \; \mathbf{E} \to 1.6 * \; 10 \; , \; \mathbf{E} \to 1.6 \;$ 



 $\{\omega \to 2 \; \pi * 500 * 10 \; ^{\circ}6, \; \delta 0 \to 15 * (10 \; ^{\circ}-6) \; * \; 1.6 * \; (10 \; ^{\circ}-19) \; , \; \mathbf{T} \to 0.2, \; \mathbf{kB} \to 1.4 * \; 10 \; ^{\circ}-23, \; \mathbf{e} \to 1.6 * \; 10 \; ^{\circ}-19, \; \mathbf{\Gamma} \to 10 \; ^{\circ}10, \; \mathbf{E} \to 1.6 * \; \mathbf{E} \to$ 

