

$$r_s = 2.0, \beta \epsilon_F = 40.0,$$

$$\lambda = 0.4 \epsilon_{\text{Ry}}, N_{\text{eval}} = 5.0 \text{e}10,$$

$$\epsilon_{\text{TF}} \equiv \frac{\hbar^2 q_{\text{TF}}^2}{2m_e} = 2\pi \mathcal{N}_F \text{ (a.u.)}$$

