Comments on Takagi *et al.* PRB (2020)

Daijiro Takagi

- Equation (5)

$$G_{\mathrm{NS}}(E, j) = \frac{t^2 e^2}{2h} \mathrm{Tr} \left[-\bar{G}_{j,j+1} \bar{G}_{j,j+1} - \bar{G}_{j+1,j} \bar{G}_{j+1,j} + \bar{G}_{j,j} \bar{G}_{j+1,j+1} + \bar{G}_{j+1,j+1} \bar{G}_{j,j} \right],$$

$$\downarrow$$

$$G_{\mathrm{NS}}(E, j) = \frac{t^2 e^2}{h} \mathrm{Tr} \left[\frac{\tau_0 + \tau_z}{2} (-\bar{G}_{j,j+1} \bar{G}_{j,j+1} - \bar{G}_{j+1,j} \bar{G}_{j+1,j} + \bar{G}_{j,j} \bar{G}_{j+1,j+1} + \bar{G}_{j+1,j+1} \bar{G}_{j,j}) \right],$$

  with the Pauli matrices τ_0, τ_z in electron–hole space. [page: 3 in the paper]

- The parameter $\omega_n/t = 10^{-8} \rightarrow \delta_\epsilon/t = 10^{-8}$. [in the caption in Fig. 5, page: 7 in the paper]
  The differential conductance is calculated with the advanced and retarded Green's function.

- The labels of the y axes $G_{\mathrm{NS}}[2e^2/h] \rightarrow G_{\mathrm{NS}}[e^2/h]$. [in Figs. 5(d)–5(f), page: 7 in the paper]
  The quantized value at the zero voltage becomes the half of that in the p_x-wave superconductor because Kitav
  chain is spinless.