

物理法則の空間反転対称性を仮定すると、

$$\begin{aligned} f(-V_1, -V_2) &= -f(V_1, V_2) \\ g(-V_1, -V_2) &= -g(V_1, V_2) \end{aligned}$$

$$\therefore g(-x, 0) = -g(x, 0)$$

$$f(-x, 0) = -f(x, 0)$$

$$\begin{aligned} \therefore F(x) &= g(-x, 0) - f(-x, 0) \\ &= -F(-x) \end{aligned}$$

$$F(x) = -F(-x)$$