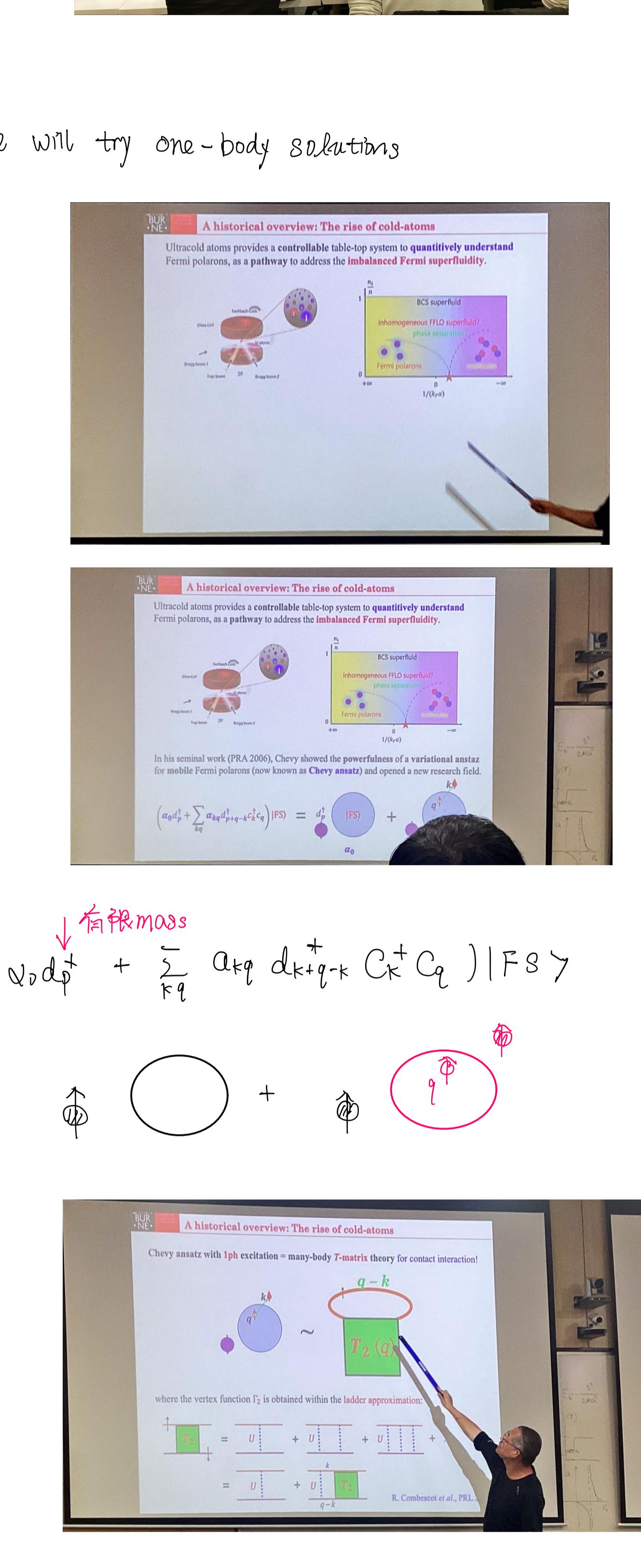
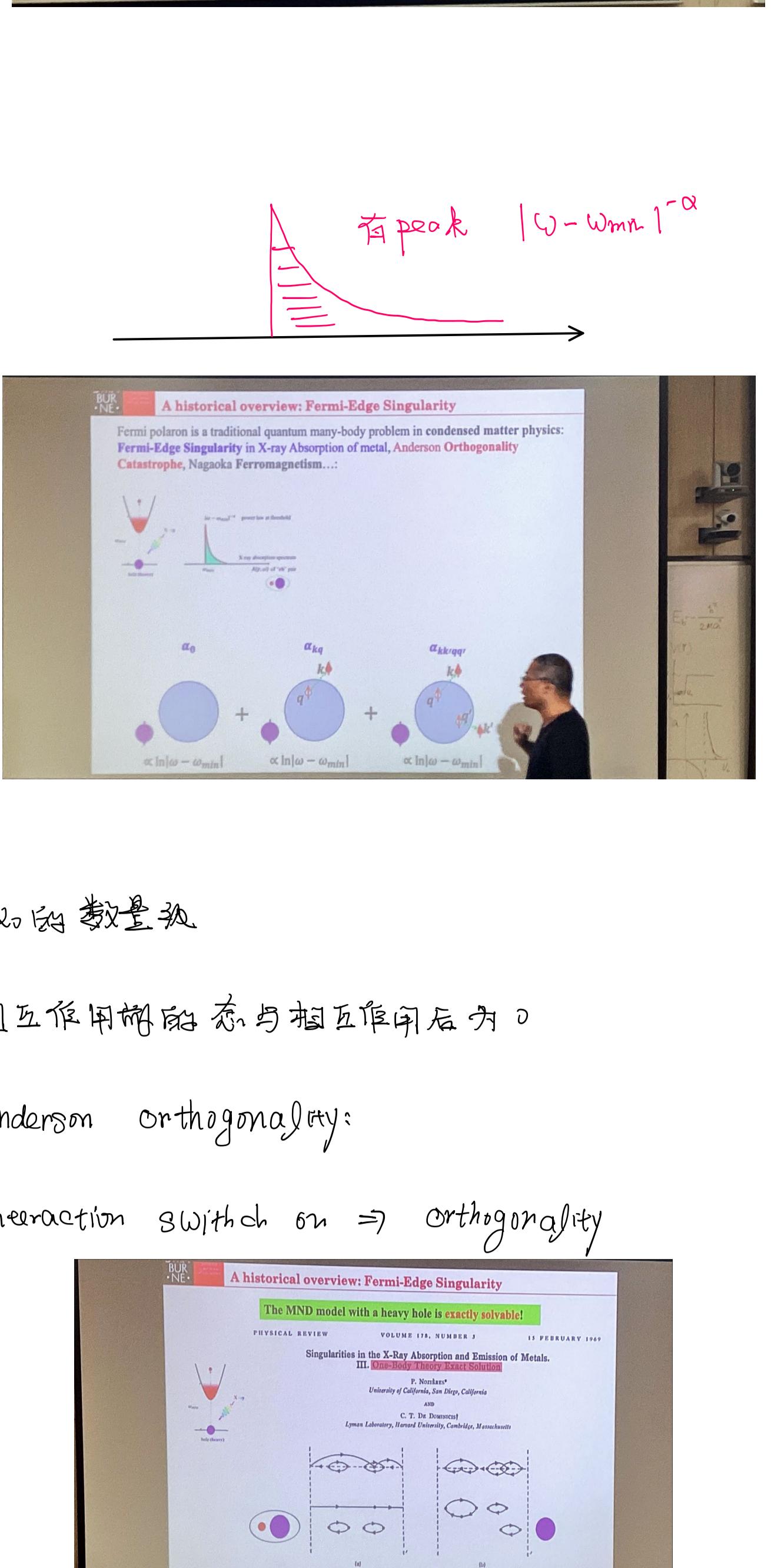


Polaron

Tuesday, November 12, 2024

15:50

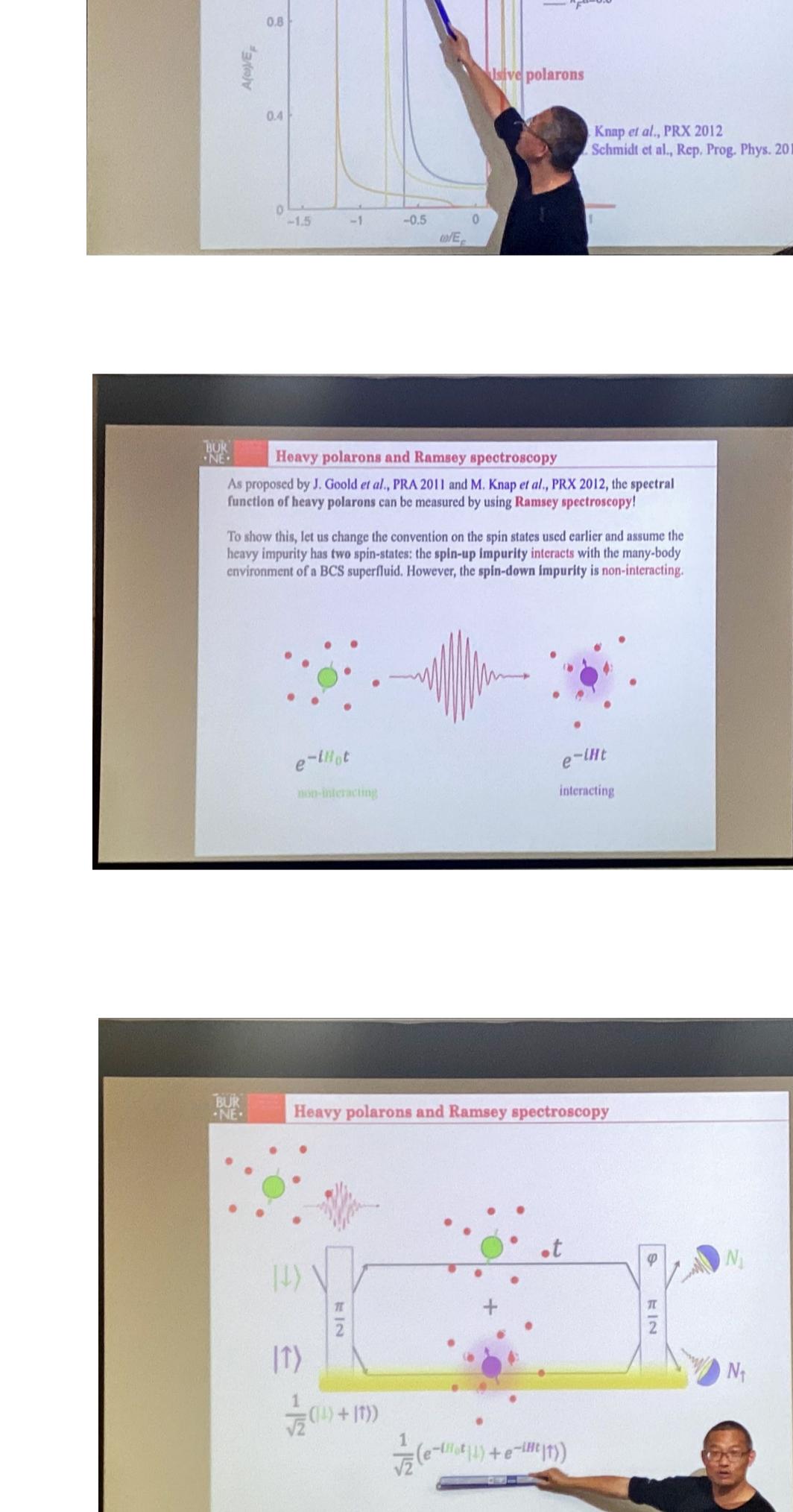
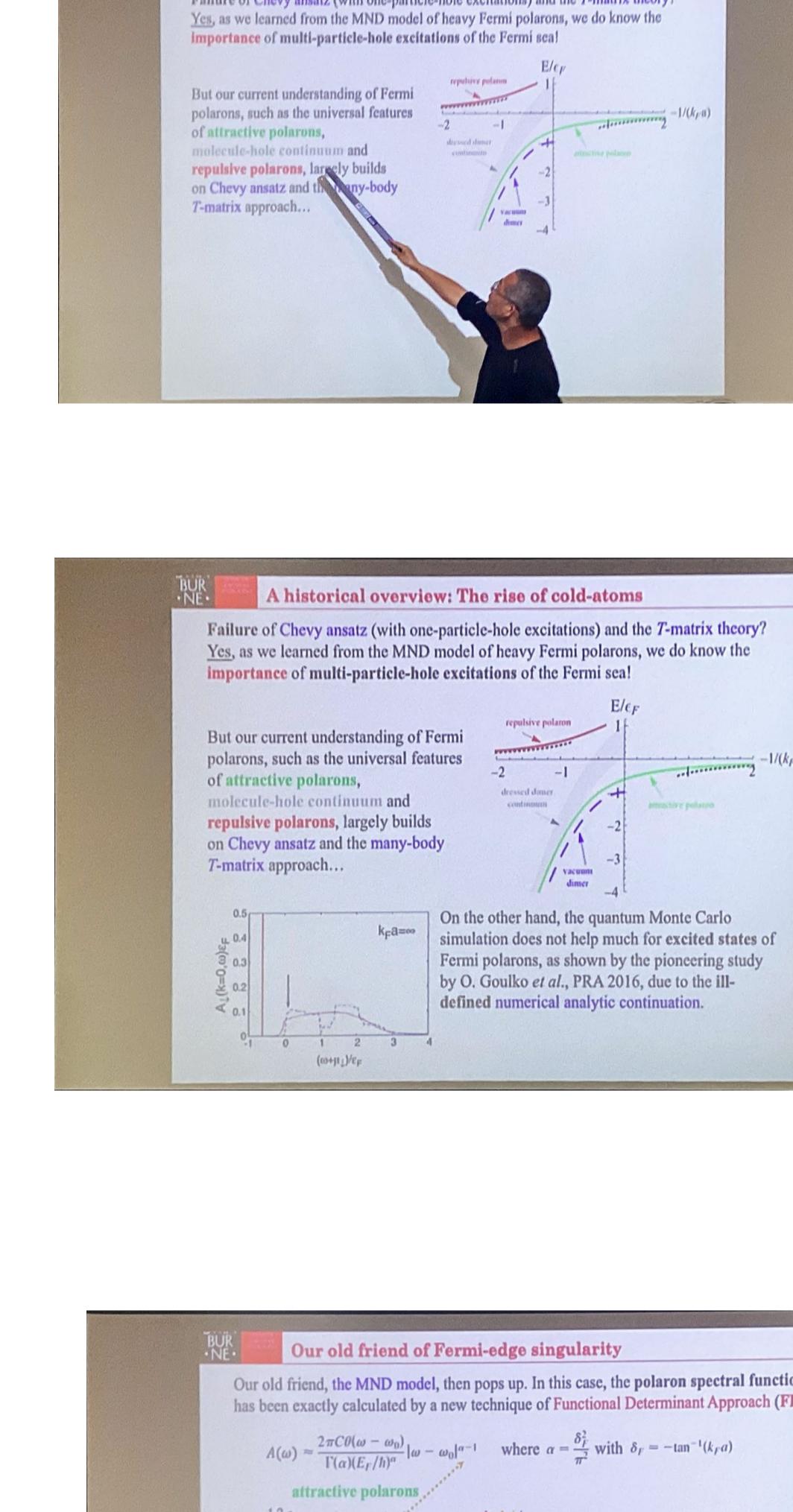


Q2 例题 教量法

相互作用相关的态与相互作用后态为 0

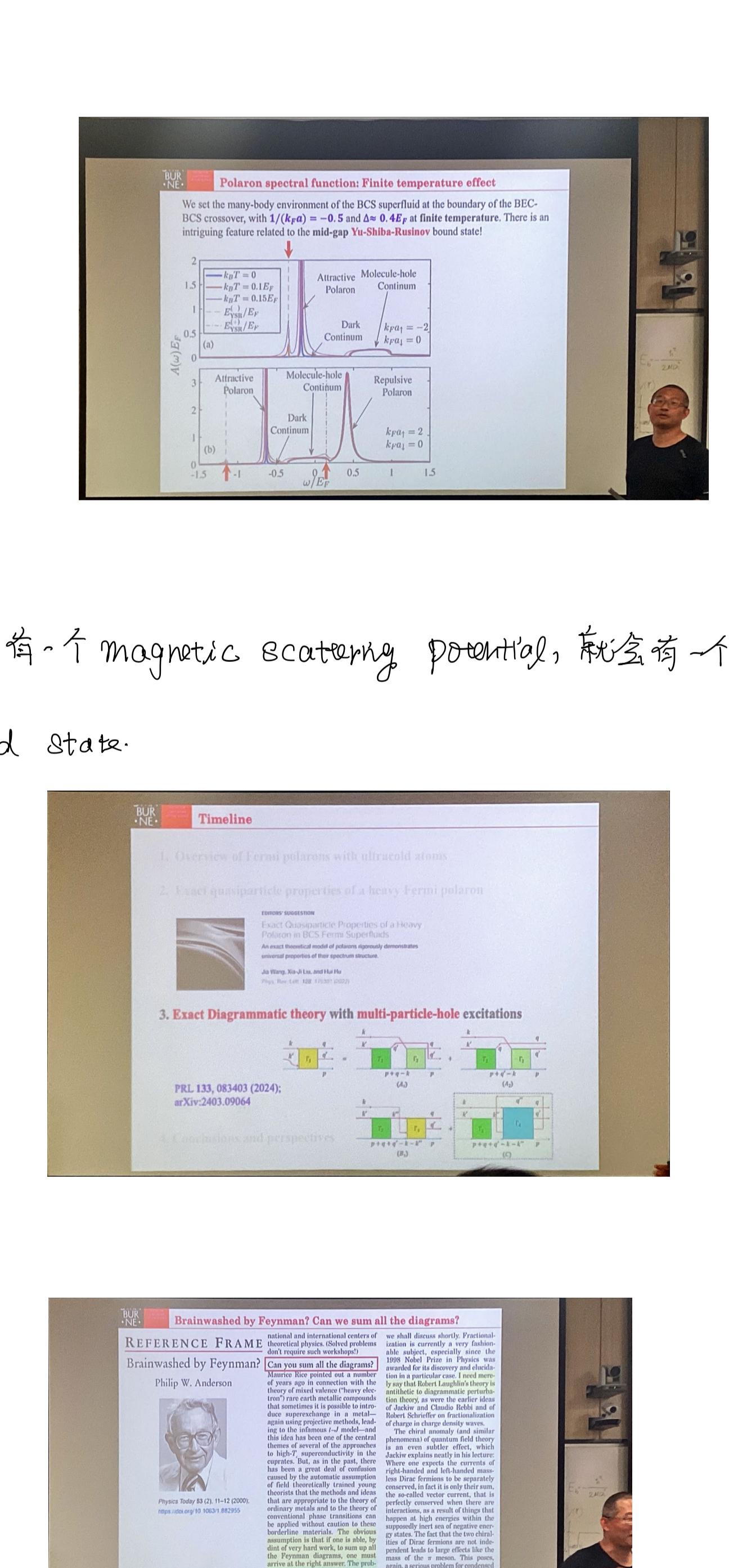
Anderson orthogonality:

interaction switch on \Rightarrow orthogonality

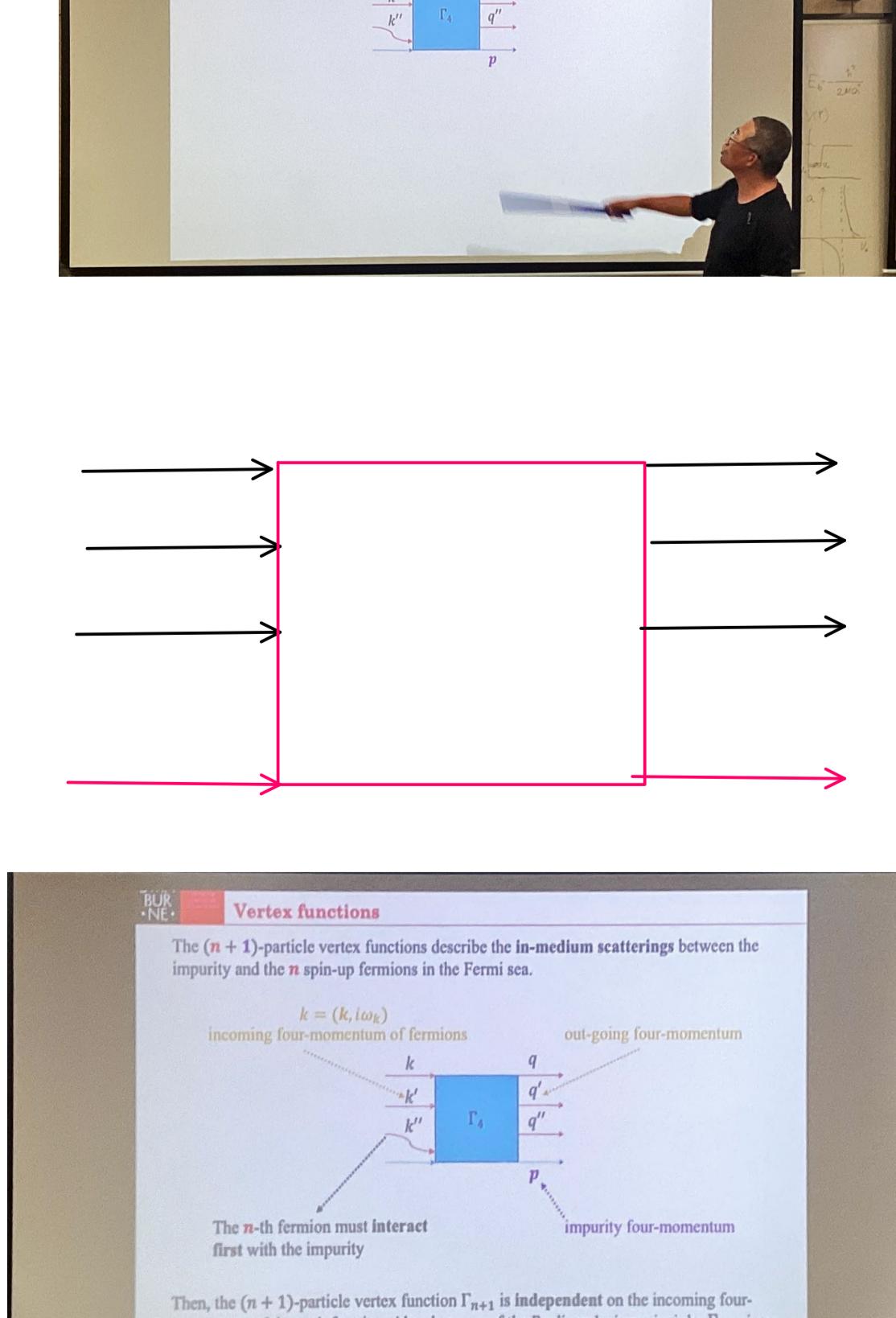


$$(\langle \psi | d_p^+ + \sum_{kq} a_{kq} d_{k+q-k}^+ C_k^+ C_q^- | F \rangle \delta \gamma)$$

$$= (\emptyset + \emptyset + \emptyset) = 0$$

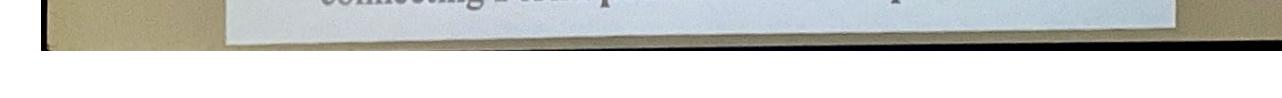


BCS 有一个 magnetic scattering potential, 就会有一个 bound state.



$$\langle e^{iH_0 t} e^{-iH_0 t} \rangle = S(t)$$

$$\text{Tr}(e^{\Gamma(A)} e^{\Gamma(B)} \dots) = \det(1 + e^{\widehat{A}} e^{\widehat{B}} e^{\widehat{C}} \dots)$$



$$\langle e^{iH_0 t} e^{-iH_0 t} \rangle = S(t)$$

$$\text{Tr}(e^{\Gamma(A)} e^{\Gamma(B)} \dots) = \det(1 + e^{\widehat{A}} e^{\widehat{B}} e^{\widehat{C}} \dots)$$

$$\langle e^{iH_0 t} e^{-iH_0 t} \rangle = S(t)$$

$$\langle e^{iH_0 t} e^{-iH_0 t} \rangle = S(t)$$