## Single-channel care

In the multi-channel care:

In the eingle-channel care

$$f_{\alpha\alpha}(G) \rightarrow f_{\alpha}(G) = e^{i\sigma e} \frac{1}{2} \left[ H_{\epsilon}^{(i)} - S_{\epsilon} H_{\epsilon}^{(i)} \right]$$

$$= e^{i\sigma e} \frac{1}{2} \left[ e^{-i\sigma e} - e^{2i\sigma e} e^{+i\sigma e} \right] =$$

$$= e^{i\sigma e} \frac{1}{2} e^{i\sigma e} \left[ e^{-i\sigma e} - e^{-i\sigma e} - e^{i\sigma e} \right]$$

$$= -2i \operatorname{Sen}(\theta_{\epsilon} + \sigma_{\epsilon})$$

Une 
$$\operatorname{sen}(\operatorname{Ue} + \operatorname{de}) = \operatorname{sen}\operatorname{de} \operatorname{sen}\operatorname{de} + \operatorname{sen}\operatorname{de} \operatorname{con}\operatorname{de}$$

$$= \int_{\Omega} \operatorname{Gr} = \operatorname{e}^{\operatorname{i}(\operatorname{Ue} + \operatorname{de})} \left[ \operatorname{con}\operatorname{de} \operatorname{sen}\operatorname{de} + \operatorname{sen}\operatorname{de} \operatorname{con}\operatorname{de} \right]$$

50, in ringle-channel problems, one can use the alternative asymptotic condition:

which has the advantage of being real valued for real potentials