## GREEN'S FUNCTION CONVENTIONS -> APPEL

$$\int_{\infty}^{\infty} \frac{1}{k^{2} - (E/C)^{2}} e^{-iEu} dE = \int_{\infty}^{\infty} \frac{1}{E^{2} - K^{2}} e^{-iEu} c dE$$

$$E = E/C$$

E=-K

dhanks to Wei-Xiang Feng for pointing this of

WHAT IF WE STUCK WI Natural-like units?

 $\partial_{5} = \frac{1}{95} - \frac{35}{95}$   $\partial_{5} = \frac{1}{95} - \frac{35}{95}$  $\partial_{5} = \frac{1}{95} + \frac{1}{35} \times \frac{1}{35}$ 

 $\partial^2 G = \partial^2 \int d^4 k \, e^{-ik \cdot x} \, \hat{G}(k) = \hat{S}(x)$ 

= 22/ 45 t3k e i f. ct e ikx & = 1 15 t3k e i f. ct ikx

TIMESE FACTORS OF C CANCEL SO CALCULATION OF & PROCEEDS HE IN PREVIOUS CASE

BUT: G(x-x1) = Jank a = Jet 18 &

EXTRA FACTOR

Before Samo

80 G(x-x') IS DIFFERENCE!

THAT'S OKAY: WHEN WE SOME B'Ar(x) = &r(x)

Ap(x)= Jd'x' j+(x) G(x-x')

1 HAS EXTRA CT

M NATURAL-LIKE UNITS,

d4x' = d(ct) d/2

C EXTRA FACTOR OF C

CANCEC