Z[1]= [D+ e,8[4] e,9+24

kind of like revoces T

in HW:

Z[1]: (0/+ eild" 34/0>

the vacuum presistince amplifude in the presence of source

80: \$ - \$ :08

analy of  $X \Rightarrow \frac{196}{3}$ 

[M.N.=5[0]] | M., yourses:

100 | M., See 'S[0]=1

100 | See 'S[0]=1

( See GREINER ex 12.4 for vacuum BUBBIE ONICEL.)

LET'S DIG IN MORE EXPLICITLY -> GIRBINISE)

L== 2(04)2- 2m2+2- 2m2+ 2m2+4-

TAYLOR EXP:

Z[J] = Z.[J] (1+ z,[J] + 22[J] +-)

BUT: norm is a little tercky

be mi ex 17.3

Graver ex 124

Ö

45

 $\frac{8}{18364} Z_{0} = -129 \Delta_{+}(x-y) J(y) Z_{0}$   $\frac{8}{18364} = 8(2-x)$   $\frac{8}{18364} Z_{0} = \left[ \frac{1}{7} \Delta_{+}(0) + (J_{2}^{4} y \Delta_{+}(x-y) J(y))^{2} \right] Z_{0}$   $\frac{8}{18364} Z_{0} = 2 + \Delta_{+}(0) (J_{2}^{4} y \Delta_{+}(x-y) J(y)) Z_{0}$ 

= [= & & = (0) ([ 29/ D= (x-y)](4)) - ([29/ D= (x-y)](4))<sup>3</sup> ] Z=

+ [...] (- 114 De Carp) 3(4)) 2 =

(800x) 2 = [ 3 (D=(0)) 2 - 6 + D=(0) (14,0=(x-4))(4)) 2 = [ 3 (D=(0)) 2 - 6 + D=(0) (14,0=(x-4))(4)) 3

each X 1 each -0 positions

1471

J=0 kills like endings  $e^{-}$  any  $\frac{30}{4!}$ 

BURBLES CO AWAY .

& K

## GREEN'S PUNC/COPPR FUNC of INTERACTING THY

what about 4-point? start from (ii) ... ignore onthing O(33) - DET ... dies from 1/2 or that? (°) = 1 = 1 = 1 = 1 = ( = ) + ( = 2 ) +12 (13) PIECES: terms of 1 live ending after 465(2) THE WAR # 2011 - (11 #. (6 & + 26) +-) e200 181 10 10 10 2 2/1/2 = 41. 12 [ " 2" + perm. + 2 + 1200 Jezon

+ O(12)

C DI'ES on 4th DER

rosuct

$$\frac{\langle \phi, \phi_2 \phi_3 \phi_4 \rangle}{+ \frac{1}{2} \times \left(\frac{Q}{2} + \frac{1}{2} + \frac{1}{2}$$

Connected GREN'S fis Corrected:

Z[i]= e i W [i] i

correlation Anatroni

(nb Why would we care?)

: W[]] = In 2[] - In[(1+2)(6-2+2)+-)e2--] - In e2-- +In[1+2)(6-2+2)] +...

= = = + = (62, +%) + ...

187x - 8 W[] = xx + O(x2)

ple Eque is heard organisal

80: M generales corrected liggious

GREINER: ENDOUGH FLEETS ON 12 FIELD QUONTS