

December-16-11
12:19 PM

Q&A to 10:45.

$$F(\mathbb{R}) = \frac{-ig}{(2\pi)^{3/2} \sqrt{2W_k}} \int (\dots)$$

... Computation of the mean energy & momentum in model I

Model II. ρ is time independent

$$\mathcal{L}_I = F(t) g \int (\mathcal{E}) \phi$$

where F looks like



(adiabatic on/off)

... even the vacuum energy changes ...

... switch to

counter term

$$\mathcal{L}_I = \int F(t) g(t) \rho \phi - \alpha f(F(t))$$

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Continued Dec 20, 2011:

... The S-matrix comes out to be $1 \uparrow$

... The energy comes out similar to "electrostatics",
with Yukawa coupling: $\sim \frac{e^{-\alpha r}}{r}$