

Errata: QFT and CMT

I am grateful to Ben Strekha for bringing the following to my attention.

Important errata in **boldface**

Chapter 1

page 6, equation (1.41) shouldn't have a T in the denominator

page 9, 3 lines below equation (1.58), $d = 3N - 1 \simeq 3N \rightarrow d - 1 = 3N - 1 \simeq 3N$

page 16, equation (1.120) is missing a dV in the numerator on the right hand side.

Chapter 2

page 23, equation (2.23) and (2.24) $dh \rightarrow \partial h$ and $d^2h \rightarrow \partial^2h$ in the denominators

page 24, equation (2.25) is missing an $i = 0$ in the limit of the sum

page 25, equation (2.28) the right hand side lower limit on sum: $t_i = \pm \rightarrow t_i = \pm 1$

Chapter 3

page 31, second line. $U(x, x' : t) \rightarrow U(x, x'; t)$

page 32, equation (3.22) should have an index n for the sum.

page 37, equation (3.58). $\langle s, \rangle \rightarrow \langle s \rangle$.

page 38, in the sentence continuing after (3.60) $\exp(2K^*) \rightarrow \exp(-2K^*)$.

Chapter 5

page 57, equation (5.24) $\exp(-iS_c/\hbar) \rightarrow \exp(iS_c/\hbar)$.

Chapter 6

page 73, equation (6.2) drop the comma in $|\theta, \phi \rangle$

page 89, equation (6.118) drop the vertical bar in $e^{-\beta H}| \dots$

page 90, equation (6.127) $\Psi(0) \rightarrow (\Psi(0))$.

page 92, equation (6.142) is missing the integration measure $d\tau$.

page 96, equation (6.176) is missing the integration measure dx

Chapter 10

page 160, equation (10.18) is missing an "=" sign after lim

page 162 Eqn. 10.27, the right hand side should be $+\frac{1}{2\pi} \ln |\mathbf{r} - \mathbf{r}'|$.

page 165, equation (10.36) $e^S(s) \rightarrow e^{S(s)}$

page 167, second to last paragraph before 10.2.3 $t_i = s_1 s_{i+1} \rightarrow t_i = s_i s_{i+1}$.

Chapter 11

page 173 Eqn. 10.61 RHS should read $= \sum_{\alpha} g_{\alpha} \langle i | \mathcal{O} | j \rangle$.

page 190, equation (11.44), exponent on right hand side: $K'(s_0 s_1 + .. \rightarrow K'(s_1 s_2 + ...$

page 194, Figure 11.3 second $K^* + \Delta K$ should be $K^* + \Delta K'$

Chapter 12

page 205, equation (12.36) $3u_0 \rightarrow 4u_0$.

Chapter 13 page 226, equation (13.11) $S_0^*(\phi_f) \rightarrow S^*(\phi_f)$

page 226, equation (13.15) drop the comma after ϕ

page 226, equations (13.17) and (13.18) $\mathbf{s} \rightarrow s$.

page 230, equation (13.44) $u_0 \rightarrow \frac{u_0}{(2!2!)}$.

page 232, equation (13.53) $u_0) \rightarrow u_0$

page 235 before equation (13.76) "the u_0 term in Eq. (13.66)" \rightarrow the " u_0 term in (13.67)".

page 237, equation (13.93) in the argument of ϕ' , $0/s \rightarrow 0 \cdot s$.

page 240, equation (13.111) $t \rightarrow |t|$.

page 243, equation (13.134) $(4 - d) \rightarrow (d - 4)$ in the middle equality.

page 249, equation 3.157), (13.161), (13.162): need = sign after limits

Chapter 14

page 259, right after equation (14.51) $\lambda_0^2 \rightarrow \lambda_0^2$

page 260, equation (14.52) and a sentence between (14.52) and (14.53) $\lambda_0^2 \rightarrow \lambda_0^2$.

page 260, after equation (14.53) $\lambda_0^2 \rightarrow \lambda_0^2$

page 260, equation (14.54) $\lambda^2 \rightarrow -\lambda^2$

page 261, equation (14.60) $B(m_0^2 \rightarrow B(m_0..), \dots)$ and in the mini-paragraph following (14.60).

page 261, equation (14.61) and (14.62) $\lambda_0^2 \rightarrow \lambda_0^2$

page 277, on (14.113) , $d \rightarrow \partial$, in the next line $\partial \rightarrow d$

Chapter 15

page 287, equation (15.12) $e_2 \rightarrow \varepsilon_2$.

Chapter 16

page 306, last paragraph: “could” repeated

Chapter 17 **page 321**, equation ((17.11) $\exp(ipx) \rightarrow \exp(-ipx)$

page 332, equation (17.102) is missing a ”(” on the derivative term.

page 329, equation (17.76) $\phi_+^2 \rightarrow \phi_+^2(0)$.