Statistical Approach to Quantum Field Theory: An Introduction Andreas Wipf

Corrections to 2nd edition

Introduction

page 3, line 10: For example, many ... → Many ...
2 lines below: on may → one may

Chapter 2

line after (2.9): observables on through → observables through
page 15, last equation: $im(z_k - z_{k+1}) \to \Im(z_k - z_{k+1})$

Chapter 7

line 51 in program code: endfor; spotts17 → endfor;

Chapter 15

page 416, second equation in (15.85): $(D_{\rm w} D_w^\dagger) \;\mapsto\; (D_{\rm w} D_{\rm w}^\dagger)$
pate 417, eq. (15.87): $D_w^\dagger \mapsto D_{\rm w}^\dagger$
page 422, eq (15.101): $(1+\gamma^\mu)U_{y,-\mu}\delta_{x,y-e_\mu} + (1-\gamma^\mu)U_{y,\mu}\delta_{x,y+e_\mu} \;\mapsto$
$(r+\gamma^\mu)U_{y,\mu}\delta_{y,y+e_\mu} + (r-\gamma^\mu)U_{y,-\mu}\delta_{x,y-e_\mu}$
page 423, in eq. (15.102): $\sum_{x,\mu}\left(\bar\psi_{x-e_\mu}(r+\gamma^\mu)U_{x,-\mu}\psi_x + \bar\psi_{x+e_\mu}(r-\gamma^\mu)U_{x,\mu}\psi_x\right) \;\mapsto$
$\sum_{x,\mu}\left(\bar\psi_{x+e_\mu}(r+\gamma^\mu)U_{x,\mu}\psi_x + \bar\psi_{x-e_\mu}(r-\gamma^\mu)U_{x,-\mu}\psi_x\right)$

Chapter 17

page 475: 4. line from below: continuum model → continuum models
one line below: of the fermion determinant → of fermion determinants
page 481, third line: they asymptotically → they are asymptotically
page 491, integrand of (17.68): $\dots K_L^{d-1}(t), \mapsto \dots K_L^{d-1}(t)\,\mathrm{e}^{-t\rho^2}$,
page 494, integrand of (17.83): $\dots K_L^{d-1}(t), \mapsto \dots K_L^{d-1}(t)\,\mathrm{e}^{-t\sigma^2}$,
page 496, line below (17.90): $\varepsilon_p \mapsto \varepsilon_{\boldsymbol{p}}$
page 504, expression on left hand side of eq (17.112):

$$\prod_n \left((\omega_n - \mathrm{i}\mu_v)^2 + \varepsilon_{\boldsymbol{p}}^2\right) \mapsto \prod_n \frac{(\omega_n - \mathrm{i}\mu_v)^2 + \varepsilon_{\boldsymbol{p}}^2}{\omega_n^2}$$

after (17.115): by using $\cosh(\pi z) = \dots$ → by using $\log\cosh(\pi z) = \dots$
page 515, caption of Fig 17.8: The values at the origin → The value at the origin
page 539, missing bracket in equation in problem 17.5: $\langle(\psi\psi)(x)(\bar\psi\psi(y)\rangle \mapsto \langle(\psi\psi)(x)(\bar\psi\psi)(y)\rangle$
page 541, problem 17.9: $\rho_{mn}(x) \mapsto \varrho_{mn}(x)$

References

reference 1.: **3**, 91 (1978) ↦ **3**, 91 (1958)