

# Statistical field theory, G. Mussardo (Oxford University Press): Errata

Harold Erbin<sup>\*1</sup>

<sup>1</sup>CNRS, LPTENS, École Normale Supérieure, F-75231 Paris, France

26th July 2017

These errata have not been reviewed by the author nor the editor and I may have made some mistakes. Colors red and blue are respectively used to highlight the error and its correction (if necessary).

03/04/2017

- p. 373, above eq. (11.5.20): "trasforms" → transforms
- eq. (9.7.13): The mass term  $m\bar{\psi}\psi$  is not correct because it vanishes due to the anti-commutation of  $\psi_1$  and  $\psi_2$  and the definition of  $\gamma^0$ . The only possibility for it to be non-trivial is  $m\bar{\psi}\gamma^3\psi$  but then covariance is lost. It is possible that  $\gamma^3$  is not correctly defined and exchanged with the chirality operator. See [1] for the original paper.

## References

- [1] J. B. Zuber and C. Itzykson. ‘Quantum Field Theory and the Two-Dimensional Ising Model’. *Physical Review D* 15.10 (May 1977), pp. 2875–2884.  
DOI: [10.1103/PhysRevD.15.2875](https://doi.org/10.1103/PhysRevD.15.2875).

---

<sup>\*</sup>[erbin@lpthe.jussieu.fr](mailto:erbin@lpthe.jussieu.fr)