

Chapter 18

Literature and Further Readings



A full bibliography on anomalies consists of thousands of papers and books and is impractical for editorial reasons. Therefore I have made the choice of a short bibliography for any chapter containing papers and books which are a direct source of each chapter or have been basic for my understanding of fermions and anomalies.

After the limited list of references cited at the end of each chapter I have prepared an extended one. The latter, although very large, is still not an exhaustive collection of all the articles concerning anomalies in QFT and strings. I believe it is pretty so for the ‘pioneering’ period, which runs from the beginning till the late 80s of the last century. For the subsequent period until mid-2022, it is less complete, as it focuses mostly on the methodological papers rather than in the applicative ones. The range of applications of anomalies is so vast that for completeness it would have required, roughly speaking, more than twice as many pages. Therefore, I have chosen to be as thorough as possible for the first period and to become more selective in the most recent periods, privileging the papers which bear some relevance to the contents of the book and sacrificing the others. With this choice, some sectors are not covered or the coverage is limited to a small number of most significant papers, notably: anomalies in lattice gauge theories, phenomenological applications of anomalies to particle or gravity theories, anomalies and quantum Hall effect, supersymmetric anomalies, anomalies and Weyl semimetals, anomalies on orbifolds and on manifolds with boundary, anomalies and the CFT/AdS correspondence, anomalies in non-commutative field theories, rigid (often called global) anomalies, applications of t’Hooft anomalies, anomalies and entanglement, holomorphic anomalies; also the number of papers on anomalies in superstring theories had to be downsized.

This extended bibliography can be found appended to this chapter as Electronic Supplementary Material ESM_1.pdf.

Supplementary Information The online version contains supplementary material available at https://doi.org/10.1007/978-3-031-21928-3_18.