

Name

Section

Points

If you

Abstract

- 3 Describe: central steps or features of calculation; main result.
1 Have significant gaps in description of calculation or conceptual errors.

Introduction

- 6 Motivate QFT. Include all steps from free theory to observables, with motivation, (via name, words, or graphics): interaction picture; Dyson's series; Wick's theorem. Discuss complications or new features arising from: fermions and gauge fields. Bonus points available for: crossing symmetry.
4 Include most steps, or include all steps but fail to motivate appropriately.
2 Include some steps, with little to no motivation. Have conceptual errors.
1 Have significant conceptual errors. List just one or two steps with no motivation.

Conclusion

- 6 Briefly describe calculation. Highlight central result or key features. Incorporate outlook, including one of: higher order calculations; application to other observables or processes; applicability of EFT at other energy scales; experimental or theoretical applications.
4 Describe calculation but fail to address future work, or address only briefly.
2 Fail to summarise calculation. Have conceptual errors.
1 Fail to summarise calculation. Have significant conceptual errors.

Presentation

- 15 Clearly and succinctly present your work. Logically order topics. Punctuate and format equations appropriately. Have only a few minor typographical or grammatical errors that do not indicate conceptual misunderstanding. Correctly gauge the level at which the material should be presented. Provide an appropriate level of detail throughout.
10 Generally present your work clearly and structure most topics logically. Have some formatting issues or a number of typographical and grammatical errors. Sometimes include too little or too much detail.
7 Structure your work reasonably, but have significant issues with presentation of equations or with typographical and grammatical errors. Your work is understandable, but not particularly clear, and may not be presented at an appropriate level for the intended audience. Regularly include too little or too much detail.
4 Have a reasonable grasp of the appropriate structure for your work, but fail to present the material at an appropriate level. Have significant presentation issues throughout. Rarely give the appropriate amount of detail.
2 Have presentation problems that make your project hard for a reader to follow, with illogical ordering, poor formatting throughout, and very significant typographical or grammatical errors. Practically never give the appropriate level of detail.

Mathematics

Maximum score: 30. Minus one point for each error, as usual.

Total

Maximum score: 60.

Comments