

Quantum Field Theory I: PHYS 721 (Fall 2021)

Quick quiz 8

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Instructions

These quick quizzes are low-stakes assessment tools to help cement your understanding of our material. They will help you remember the key facts and can serve as a study guide to help you focus on material you are less familiar with. These quizzes do not contribute to your grade and are for your own use.

1. **Without looking at your notes or the textbook, and without consulting with your neighbour**, write your answer to each question in the **first column**.
2. Discuss with your neighbour and use your notes or the textbook as needed to answer each question and write your answers to each question in the **second column**. You should complete the second column, but do not add anything to your first column.

There are four questions.

Question 1

There were four sections in the course: particles and fields; free field theories; interacting field theories; and scattering in QED. What do you think was the most important concept, idea or equation in each section?

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Question 2

What did you find was the most confusing concept, idea or equation in each section?

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Question 3

Disregarding the names, ordering, and presentation of topics in the course, how would you categorise the main topics required to understand the material and in what order would you present them?

Question 4

What was your favourite part of the course? And what was your least favourite?