The Standard Model: HW 2

Due Thursday, April 21, 2016

Please answer all questions clearly and concisely. You are strongly encouraged to discuss the homework with your classmates, but you must complete the written homework by yourself, and of course, the material you submit must be your own.

All problems are from the distributed manuscript.

1. Prob 3.1
2. Prob 3.3
3. Prob 3.5
4. Prob 3.7
5. Prob 3.10
6. Prob 4.1
7. Prob 4.4
8. Prob 4.10

For fun (not for credit), I also suggest you try your hand at:

1. Prob 4.3
2. Prob 4.6

They are “show that” problems, and most of the pedagogical benefit is in the doing, not the grading. You’ll know if you’ve done them correctly.