QFT Homework 6 Due 29 Oct 2012

This homework is due in the dropbox outside 2L26 by 11:59PM on the due date. If you wish to turn it in ahead of time, you may email a PDF (prepared with LaTeX) to Dr. Frey.

Reading: Srednicki chapters 11, 12, 14, & 16. Please find supplemental reading as you need it.

To Be Marked:

1. **Decay Rates** *Srednicki 11.1*

2. **Scatterings** *Srednicki 11.4* HINT: Try drawing the Feynman diagrams first.

Useful Excercises To Do On Your Own (not to be marked but to be discussed in the class meeting):

3. **Arbitrary Dimension Sphere** *Srednicki 14.2*

4. ϕ^3 **Counterterms** *Srednicki 14.4*