## QFT Homework 9 Due 13 Nov 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 17-21. (You'll re-read some of this next week.) Please find supplemental reading as you need it.

To Be Marked By Teachers: In both questions, make sure you work in d dimensions and let  $d \rightarrow 4$  at the end.

- 1. Propagator Correction in  $\phi^4$  Srednicki 14.5
- 2. Vertex Correction in  $\phi^4$  Srednicki 16.1

Not To Be Marked (Yet)

- 3. Effective Action Srednicki 21.1
- 4. Background Fields Srednicki 21.3