Homework IV

Suggested reading:

- 1. Peskin sections 16.5, 171.1 and 17.2.
- 2. Pokorski section 8.1.

due date November 5th

- 1. Consider an arbitrary gauge theory with n_f fermions in the fundamental representation of the group. Evaluate the one-loop vacuum polarization diagrams and obtain the corresponding Z_3 .
- 2. Using the results for $Z_{1,2,3}$ obtain the β function of the model in the previous item.