

Homework 5

1. Srednicki problem 10.2
2. Srednicki problem 10.3
3. Srednicki problem 10.5
4. Srednicki problem 11.4
5. Compute the tree-level amplitudes for the following process in scalar electrodynamics: (i) $\tilde{e}^+\gamma \rightarrow \tilde{e}^+\gamma$; (ii) $\tilde{e}^-\tilde{e}^- \rightarrow \tilde{e}^-\tilde{e}^-$; (iii) $\tilde{e}^-\tilde{e}^+ \rightarrow \tilde{e}^-\tilde{e}^+$.