

Physics 221A

Quantum Field Theory

Fall 2012

Prof: Joe Polchinski

joep@kitp.ucsb.edu

ASSIGNMENT #6

Due: Weds., Nov. 7, 5pm in graders' mailbox.

1. Srednicki 14.5: the propagator correction in ϕ^4 theory.
2. Srednicki 16.1: the vertex correction in ϕ^4 theory.
3. Srednicki 16.2: the vertex correction in $(\phi^\dagger\phi)^2$ theory.