

# Quantum Field Theory II (8.324) Fall 2010

## Assignment 5

### Readings

- Peskin & Schroeder chapters 7 and 10.
- Weinberg vol 1 chapters 11 and 12.

### Problem Set 5

1. **Equivalent photon approximation (40 points)**  
Peskin & Schroeder prob. 6.2
2. **Exotic contributions to  $g - 2$  (30 points)**  
Peskin & Schroeder prob. 6.3
3. **QED with an additional scalar field (30 points)**  
Peskin & Schroeder prob. 7.3

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