

Physics 131

Spring 2009

Particle Physics Seminar #7

**Textbook:** Griffiths - Introduction to Elementary Particles

**Website:** (all notes referred to below are on web site)

[http://chaos.swarthmore.edu/courses/Phys131\\_2007/index.html](http://chaos.swarthmore.edu/courses/Phys131_2007/index.html)

**Readings:**

**REQUIRED:** Griffiths - Chapter - 6  
04 QFT1

**Topic(s):**

(1) Quantum Electrodynamics

**Professor Lecture Topic(s):** Quantum Field Theory

**Problems:**

1. Griffiths 6-01 Lifetime relation
2. Griffiths 6-02 Half-life
3. Griffiths 6-03 Muons still around?
4. Griffiths 6-04 Scattering
5. Griffiths 6-05 Kinematic relation
6. Griffiths 6-06 Estimate lifetime