

**Physics 093**

**Fall 2009**

**Particle Physics Directed Reading #1**

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

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

[http://chaos.swarthmore.edu/courses/Phys093\\_2009/index.html](http://chaos.swarthmore.edu/courses/Phys093_2009/index.html)

**Readings:**

Griffiths - Chapters - 1 and 2  
01\_Ch19\_2ndQuant - 2<sup>nd</sup> Quantization

**Topic(s)**

- (1) Historical Introduction to Elementary Particle
- (2) Survey of Elementary Particle Dynamics
- (3) Second Quantization

**Professor Lecture Topic:** Second Quantization

**Problems:**

Griffiths 1-07, 08, 12, 13, 18  
Griffiths 2-02, 03, 04, 05, 07, 08, 11