

PHYS 3446

Lecture #1

Monday Aug 25, 2008

Dr. **Andrew Brandt**

1. Syllabus and Introduction
2. HEP Infomercial

Please turn off your cell-phones, pagers and laptops in class

Thanks to Dr. Yu for developing electronic version of this class

<http://www-hep.uta.edu/~brandta/teaching/fa2008/teaching.html>

Course Material

- Nuclear Physics
 - Models of atom
 - Cross sections
 - Radiation
- High Energy Experimental Techniques
 - Energy deposition in matter
 - Particle detector techniques and detectors
 - Accelerators
- HEP Phenomenology
 - Elementary particle interactions
 - Symmetries
 - The Standard Model
 - Beyond the Standard Model

Attendance and Class Style

- Attendance:
 - is **STRONGLY** encouraged, to aid your motivation I give pop quizzes
- Class style:
 - Lectures will be primarily on electronic media
 - The lecture notes will be posted **AFTER** each class
 - Will be mixed with traditional methods (blackboard)
 - Active participation through questions and discussion are **STRONGLY** encouraged