

PHYS 3446

Lecture #1

Monday Aug 30, 2010

Dr. Andrew Brandt

1. Syllabus and Introduction
2. High Energy Physics at UTA

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

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

<http://www-hep.uta.edu/~brandta/teaching/fa2010/teaching.html>

My Background+Research

B.S. Physics and Economics College of William&Mary 1985

PH.D. UCLA/CERN High Energy Physics 1992

(UA8 Experiment-discovered hard diffraction)

1992-1999 Post-doc and Wilson Fellow at Fermilab

-Discovered hard color singlet exchange

-1997 PECASE Award for contributions to diffraction

-Proposed and built (with collaborators from Brazil) DØ Forward Proton Detector

-QCD Physics Convenor

-Trigger Meister

1999-2004 UTA Assistant Prof .; 2004-2010 Assoc. Prof.;

Today- Professor

- DOE OJI, NSF MRI, Texas ARP awards for DØ FPD

-2005 started fast timing work (ARP, DOE ADR)

-2007 Grant on WMD detection using nanoparticles w/Dr. Chen

-2008 sabbatical on ATLAS

Grading

- Only test is a Midterm: 25%
 - No Final
 - Test will be curved if necessary
 - No makeup tests
- Homework: 20% (no late homework)
- Lab score: 25% (details soon)
- Project: 20% (a look at early ATLAS data or a report/presentation on important events in particle physics?)
- Pop Quizzes: 10%