

# PHYS 1444 – Section 003

## Lecture #1

Monday, Aug. 29, 2005

Dr. **Jaehoon Yu**

- Who am I?
- How is this class organized?
- What is Physics?
- What do we want from this class?
- Brief history of physics
- Some basics ...
- Chapter 21
  - Static Electricity and Charge Conservation
  - Charges in Atom
  - Insulators and Conductors
  - Induced Charge

**Monday** Today's homework is homework #2, due noon, next Monday!!

# Announcements

- Plea to you: Please turn off your cell-phones, pagers and computers
- Reading assignment #1: Read and follow through all sections in appendix A by Wednesday, Sept. 1
  - A-1 through A-7
- There will be a quiz on this and Ch. 21 on Wednesday, Sept. 7.



# Who am I?

- Name: Dr. Jaehoon Yu (You can call me Dr. Yu)
- Office: Rm 242A, Science Hall
- Extension: x22814, E-mail: [jaehoonyu@uta.edu](mailto:jaehoonyu@uta.edu)
- My profession: High Energy Physics (HEP)
  - Collide particles (protons on anti-protons or electrons on anti-electrons, positrons) at the energies equivalent to 10,000 Trillion degrees
  - To understand
    - Fundamental constituents of matter
    - Forces between the constituents (gravitational, electro-magnetic, weak and strong forces)
    - Origin of Mass
    - Creation of Universe (**Big Bang** Theory)
  - A pure scientific research activity
    - Direct use of the fundamental laws we find may take longer than we want but
    - Indirect product of research contribute to every day lives; eg. WWW

