Go to: Course homepage, Lectures

## Lecture 12 iq10

Demo: Hair on end, Discharging a capacitor

## Discussions on h3 problems.

- 1. Uniformly charged sphere (001, 006, 007). Extra clicker: h3-001.
- 2. Field due to charged plates. Extra clicker: h3-004
- 3. Comments: h3-005, 008, 009.
- 4. h3: 012-014. What are q' and q"? Clicker 11-2.
- 5. h3: 018. Clicker 12-1.

## **Class Announcements:**

- Course summary of unit 1 has been updated. Please call my attention for errors. This summary page will be distributed during the exam. No "cheat sheet "is allowed during the exam.
- o Mark your calendar:
  - 1. There will be a review session for midterm1: Wed 5-6pm, location TBA.
  - 2. There will be an extended office hour: Thursday 1:30-3:30 pm, for Q and A.

## Application for "Summer-CA for Chiu"

- We are looking for an undergrad computer assistant who can convert present handwritten classnotes (posted under the link <u>Lectures</u> in our homepage: <u>http://www.ph.utexas.edu/~itiq/303Lsp13/chiu/</u>) into quality editable effiles.
  - The text will be typed in Latex format.
  - The figures will be redrawn using an appropriate free download illustrator application so that each figure is editable.
- The applicant need to submit following documents together with his/her CV application to Lisa Gentry, <u>ugaffairs@physics.utexas.edu</u> The deadline for the application is on Friday, Feb. 15.
  - 1. Please submit sample editable files to demonstrate the applicant has the computer skill to do the job.
  - 2. The applicant also needs to submit his/her detailed estimate on the total time needed to complete the project. There are approximately 40 lectures in total. When you estimate the total time needed, be as accurate as you can. Keep in mind we are looking for a quality work which can be completed within a reasonable amount of time.

Applications submitted will be reviewed by our selection committee. If you have any

Lec 12-1 Durussias on h3 prochas h Unformy charged sphere (ad, and, 007) Given , P,R Find : & thru Saints T ChatiEnt? HotEVST. G-L: 05-95 Once Qin found . => p, E. R 95 = 9 2 Tolofr Ird Do Singradur choises 7 ethe 13: 1, 6,7. Then:  $P(\bar{z})$ 2 ATT 60 . E?

12-2 003-004 Jund dere to 2 ching & plate (lige) -39 Method of superposition T T à TT T Septenter 1 Eut QIA 4 I licks: 13-004 right plate IE right 38/A etra Gavin: +9, -39 IT. En = En + En Jonel : Ett = <u>Q/A</u> - <u>39/A</u> 28, <u>2</u>8, <u>2</u>8, -24 -34+9 = <u>9/A</u> Ep Intentive peasing - - 24A - 4/A 260 - 68, 4 意 Commente 005 Rank order C + IEI, Ed + B Hint, En En the Hate t Congrare: FC Edl Ball ball EB EA, EB, E2 Eball B 

12-3 108 Hint: What is Eps, m? R When compase the m + Eps. p Use Gauss La - Cylindsceal Symmetry implies: 609 P\_ E2TTL La 12-04 qui go at 0, go in the shell Frid: 7 and 9" ig 11-2 Find: EA 018 Clicker: 12-1 11 mc Hint En all motal En plaste =0 19/2 .B S EA Toutal - Eplastic Metal plastic